

## ORGANS AND ORCHESTRIONS

**Description of the industry.**—This industry designation covers the manufacture of complete pipe organs, reed organs, and orchestrions. Many organ manufacturers purchase certain parts and materials, such as pipes, reeds, stops, etc., from establishments in the "Piano and organ materials" industry. Separate statistics for orchestrions can not be shown for 1925 without disclosing operations of individual establishments.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power        |
|--------------------------------------|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|--------------------|
| 1925.....                            | 57                       | 2,460                         | \$3,609,586 | \$396,145              | \$3,748,942                    | \$12,283,089      | \$8,534,147                             | 3,983              |
| 1923.....                            | 59                       | 1,855                         | 2,061,804   | 18,253                 | 2,802,566                      | 9,602,692         | 6,800,126                               | 2,902              |
| 1921.....                            | 56                       | 2,346                         | 3,342,795   | 6,985                  | 3,730,917                      | 10,184,854        | 6,453,937                               | ( <sup>3</sup> )   |
| 1919.....                            | 68                       | 1,941                         | 1,978,518   | 26,806                 | 2,217,087                      | 5,973,268         | 3,756,171                               | <sup>4</sup> 3,245 |
| 1914.....                            | 85                       | 3,063                         | 1,993,415   | 12,444                 | 2,659,980                      | 6,297,348         | 3,637,368                               | 3,666              |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |             |                        |                                |                   |   |                    |
| 1923-1925.....                       | ( <sup>5</sup> )         | 32.6                          | 35.6        | ( <sup>5</sup> )       | 33.8                           | 27.9              | 25.5                                    | 37.3               |
| 1921-1923.....                       | ( <sup>5</sup> )         | -20.9                         | -20.4       | 161.3                  | -24.9                          | -5.7              | 5.4                                     | -----              |
| 1921-1925.....                       | ( <sup>5</sup> )         | 4.9                           | 8.0         | ( <sup>5</sup> )       | .5                             | 20.6              | 32.2                                    | -----              |
| 1914-1925.....                       | ( <sup>5</sup> )         | -19.7                         | 81.1        | ( <sup>5</sup> )       | 40.9                           | 95.1              | 134.6                                   | 8.6                |

<sup>1</sup> Including also cost of fuel, electric power, and mill supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> This item differs slightly from the corresponding one published in the report for 1919 because of the exclusion here and the inclusion in the previous report of data for purchased power other than electric. (See footnote 1, Table 3, p. 1068.)

<sup>5</sup> Not shown where base is less than 100 or where percentage is higher than 1,000.

**TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925**

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1069]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |       |       |       |       |
|-------------------------|-------------------------------------|--|----------|-------|-------|-------|-------|
|                         |                                     | January  | February | March | April | May   | June  |
| United States:          |                                     |  |          |       |       |       |       |
| 1925 <sup>1</sup> ..... | 2,460                               | 2,387  | 2,578    | 2,416 | 2,405 | 2,417 | 2,418 |
| 1923 <sup>1</sup> ..... | 1,855                               | 1,842  | 1,806    | 1,822 | 1,799 | 1,781 | 1,809 |
| 1921 <sup>1</sup> ..... | 2,346                               | 2,358  | 2,363    | 2,371 | 2,337 | 2,357 | 2,378 |
| 1919 <sup>1</sup> ..... | 1,941                               | 1,770  | 1,814    | 1,854 | 1,909 | 1,941 | 1,951 |
| California.....         | 155                                 | 131  | 131      | 133   | 135   | 135   | 131   |
| Illinois.....           | 247                                 | 229  | 228      | 230   | 218   | 220   | 233   |
| Massachusetts.....      | 276                                 | 284  | 286      | 287   | 273   | 276   | 275   |
| New York.....           | 272                                 | 286  | 273      | 293   | 302   | 302   | 291   |
| Ohio.....               | 90                                  | 103  | 92       | 91    | 95    | 97    | 84    |
| Pennsylvania.....       | 91                                  | 87   | 88       | 90    | 91    | 92    | 93    |
| Wisconsin.....          | 139                                 | 133  | 136      | 136   | 134   | 138   | 138   |

See footnote at end of table

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |          |          |
|-------------------------|--|--------|-----------|---------|----------|----------|
|                         | July   | August | September | October | November | December |
| United States:          |  |        |           |         |          |          |
| 1925 <sup>1</sup> ..... | 2,385  | 2,417  | 2,516     | 2,508   | 2,587    | 2,690    |
| 1923 <sup>1</sup> ..... | 1,832  | 1,886  | 1,908     | 1,918   | 1,929    | 1,923    |
| 1921 <sup>1</sup> ..... | 2,328  | 2,319  | 2,288     | 2,383   | 2,333    | 2,351    |
| 1919 <sup>1</sup> ..... | 2,000  | 1,961  | 1,937     | 2,005   | 2,039    | 2,111    |
| California.....         | 127  | 139    | 180       | 155     | 207      | 258      |
| Illinois.....           | 238  | 244    | 267       | 275     | 284      | 292      |
| Massachusetts.....      | 270  | 265    | 273       | 272     | 275      | 273      |
| New York.....           | 239  | 259    | 249       | 255     | 250      | 262      |
| Ohio.....               | 88   | 85     | 87        | 85      | 88       | 91       |
| Pennsylvania.....       | 93   | 93     | 92        | 93      | 94       | 88       |
| Wisconsin.....          | 136  | 136    | 143       | 143     | 148      | 148      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 88.4; 1923, 92.3; 1921, 96; 1919, 83.8.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                             | 1923    |                             | 1919    |  |
|---|---------|-----------------------------|---------|-----------------------------|---------|--|
|   | Num-ber | Capac-ity                   | Num-ber | Capac-ity                   | Num-ber | Capac-ity                                |
| Prime movers, total.....                                    | 934     | <i>Horse-power</i><br>3,983 | 700     | <i>Horse-power</i><br>2,902 | 477     | <i>Horse-power</i><br><sup>1</sup> 3,245 |
| Steam engines.....  | 22      | 740                         | 13      | 665                         | 14      | 1,860                                    |
| Steam turbines.....   |         |                             |         |                             |         |  |
| Internal-combustion engines.....                            | 3       | 50                          | 7       | 52                          | 8       | 188                                      |
| Electric motors driven by purchased current.....            | 909     | 3,193                       | 680     | 2,185                       | 455     | 1,697                                    |
| Electric motors, total.....                                 | 909     | 3,193                       | 693     | 2,209                       | 586     | 2,106                                    |
| Driven by purchased current.....                            | 909     | 3,193                       | 680     | 2,185                       | 455     | 1,697                                    |
| Driven by current generated in establishment reporting..... |         |                             | 13      | 24                          | 131     | 409                                      |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

TABLE 4.—ORGANS AND ORCHESTRIONS—PRODUCTION, BY CLASS, NUMBER, AND VALUE, BY STATES: 1919 TO 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. See "Detailed statistics of products," p. 1064]

| CLASS AND STATE                | 1925   |              | 1923   |              | 1921             |                  | 1919             |                  |
|--------------------------------|--------|--------------|--------|--------------|------------------|------------------|------------------|------------------|
|                                | Number | Value        | Number | Value        | Number           | Value            | Number           | Value            |
| Total.....                     | 6,315  | \$13,249,750 | 9,536  | \$10,230,519 | 10,066           | \$9,711,325      | 28,301           | \$6,620,616      |
| Pipe organs <sup>1</sup> ..... | 1,955  | 12,808,220   | 1,764  | 9,691,905    | 2,187            | 8,963,011        | 1,872            | 4,731,939        |
| California.....                | 106    | 471,562      | 124    | 1,254,750    | ( <sup>2</sup> ) | ( <sup>2</sup> ) | ( <sup>2</sup> ) | ( <sup>2</sup> ) |
| Illinois.....                  | 318    | 1,367,575    | 218    | 1,134,047    | 776              | 1,247,236        | 797              | 1,058,838        |
| Massachusetts.....             | 77     | 1,426,009    | 65     | 865,363      | 58               | 789,227          | 39               | 302,112          |
| New York.....                  | 413    | 2,651,859    | 288    | 1,247,196    | 315              | 1,274,017        | 229              | 543,389          |
| Ohio.....                      | 95     | 440,710      | 84     | 359,231      | 110              | 355,114          | 70               | 194,298          |
| Pennsylvania.....              | 65     | 368,355      | 52     | 310,123      | 62               | 347,850          | 32               | 113,568          |
| Wisconsin.....                 | 113    | 637,592      | 75     | 445,027      | 118              | 456,045          | ( <sup>2</sup> ) | ( <sup>2</sup> ) |
| All other States.....          | 768    | 5,443,958    | 858    | 4,076,168    | 748              | 4,493,522        | 705              | 2,514,734        |
| Reed organs.....               | 4,360  | 441,530      | 7,772  | 538,614      | 7,879            | 748,314          | 26,429           | 1,888,677        |
| Illinois.....                  | 1,375  | 72,074       | 1,339  | 68,746       | 1,453            | 265,071          | 7,765            | 434,760          |
| All other States.....          | 2,985  | 369,456      | 6,433  | 469,868      | 6,426            | 483,243          | 18,664           | 1,453,917        |

<sup>1</sup> Data for orchestrions included for 1923 and earlier years but not for 1925.

<sup>2</sup> Included in "All other States" to avoid disclosing operations of individual establishments.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately, and one of them outranked any of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 57                       | 2,807                           | 34                           | 313                             | 2,460                         | 3,983       |
| California.....                     | 6                        | 199                             | 6                            | 38                              | 155                           | 190         |
| Illinois.....                       | 9                        | 278                             | 3                            | 28                              | 247                           | 398         |
| Massachusetts.....                  | 5                        | 321                             | 3                            | 42                              | 276                           | 456         |
| New York.....                       | 10                       | 304                             | 10                           | 22                              | 272                           | 647         |
| Ohio.....                           | 5                        | 107                             | 5                            | 12                              | 90                            | 218         |
| Pennsylvania.....                   | 6                        | 108                             | 2                            | 15                              | 91                            | 95          |
| Wisconsin.....                      | 3                        | 151                             | -----                        | 12                              | 139                           | 163         |
| All other States <sup>1</sup> ..... | 13                       | 1,339                           | 5                            | 144                             | 1,190                         | 1,816       |

| STATE                               | Salaries  | Wages       | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-----------|-------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$877,351 | \$3,600,586 | \$306,145              | \$3,748,942       | \$12,283,080      | \$8,534,147                             |
| California.....                     | 80,790    | 198,993     | 267,228                | 230,452           | 904,702           | 674,250                                 |
| Illinois.....                       | 65,590    | 322,997     | 3,067                  | 301,636           | 905,029           | 603,393                                 |
| Massachusetts.....                  | 122,027   | 531,548     | 5,389                  | 415,557           | 1,529,044         | 1,113,487                               |
| New York.....                       | 69,438    | 418,264     | 4,687                  | 404,322           | 1,222,301         | 817,979                                 |
| Ohio.....                           | 23,865    | 123,776     | -----                  | 167,929           | 470,622           | 302,693                                 |
| Pennsylvania.....                   | 50,076    | 132,309     | 4,088                  | 146,104           | 432,162           | 286,058                                 |
| Wisconsin.....                      | 69,984    | 173,439     | -----                  | 298,560           | 647,321           | 348,761                                 |
| All other States <sup>1</sup> ..... | 395,581   | 1,708,260   | 111,486                | 1,784,882         | 6,171,908         | 4,387,526                               |

<sup>1</sup> Connecticut, 2 establishments; District of Columbia, 1; Kansas, 1; Kentucky, 2; Maryland, 1; Missouri, 1; New Jersey, 2; Oregon, 1; Vermont, 1; Virginia, 1.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

## PIANOS

**Description of the industry.**—This industry embraces all establishments whose principal products are complete pianos, with or without player attachments. Many of these establishments purchase certain parts and materials, such as strings, plates, keys, keyboards, actions, cases, hammers, sounding boards, etc., from manufacturers classified in the "Piano and organ materials" industry.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5.]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--------------------------------------|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|------------------|
| 1925.....                            | 142                      | 20,079                        | \$28,096,207 | \$365,944              | \$49,295,643                   | \$101,180,777     | \$51,885,134                            | 26,912           |
| 1923.....                            | 160                      | 22,208                        | 30,679,198   | 77,249                 | 54,178,803                     | 111,159,398       | 56,980,595                              | 26,859           |
| 1921.....                            | 185                      | 15,836                        | 18,887,126   | 113,708                | 38,651,996                     | 73,639,912        | 34,987,916                              | ( <sup>3</sup> ) |
| 1919.....                            | 191                      | 22,957                        | 25,474,200   | 27,640                 | 54,364,656                     | 107,088,050       | 52,723,394                              | 28,697           |
| 1914.....                            | 255                      | 23,877                        | 15,704,679   | 276,470                | 29,091,045                     | 62,775,035        | 33,683,990                              | 25,839           |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                       | -11.2                    | -9.6                          | -8.4         | 373.7                  | -9.0                           | -9.0              | -8.9                                    | 0.2              |
| 1921-1923.....                       | -13.5                    | 40.2                          | 62.4         | -32.1                  | 40.2                           | 50.9              | 62.9                                    | -----            |
| 1921-1925.....                       | -23.2                    | 26.8                          | 48.8         | 221.8                  | 27.5                           | 37.4              | 48.3                                    | -----            |
| 1914-1925.....                       | -44.3                    | -15.9                         | 78.9         | 32.4                   | 69.5                           | 61.2              | 54.0                                    | 4.2              |

<sup>1</sup> Including also cost of fuel, electric power, and mill supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3.)

**TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925**

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1073.]

| STATE              | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |        |        |        |        |
|--------------------|-------------------------------------|--|----------|--------|--------|--------|--------|
|                    |                                     | January  | February | March  | April  | May    | June   |
| United States:     |                                     |  |          |        |        |        |        |
| 1925.....          | 20,079                              | 20,690   | 20,457   | 20,101 | 19,421 | 19,183 | 18,827 |
| 1923.....          | 22,208                              | 20,920   | 21,219   | 21,684 | 21,652 | 21,603 | 21,781 |
| 1921.....          | 15,836                              | 14,242   | 15,069   | 15,688 | 15,370 | 15,478 | 15,404 |
| 1919.....          | 22,957                              | 21,685   | 22,224   | 22,882 | 23,363 | 23,461 | 23,954 |
| Illinois.....      | 5,210                               | 5,406  | 5,276    | 5,141  | 4,977  | 4,910  | 4,819  |
| Indiana.....       | 2,169                               | 2,135  | 2,101    | 1,895  | 1,879  | 2,025  | 2,066  |
| Massachusetts..... | 1,648                               | 1,752  | 1,751    | 1,769  | 1,698  | 1,649  | 1,553  |
| Michigan.....      | 1,054                               | 1,010  | 1,020    | 1,042  | 1,048  | 1,034  | 994    |
| New Jersey.....    | 231                                 | 259  | 255      | 252    | 234    | 229    | 224    |
| New York.....      | 7,172                               | 7,407  | 7,364    | 7,353  | 7,074  | 6,891  | 6,729  |
| Ohio.....          | 580                                 | 597  | 588      | 578    | 571    | 541    | 532    |
| Pennsylvania.....  | 613                                 | 632  | 627      | 629    | 603    | 588    | 599    |
| Wisconsin.....     | 400                                 | 372  | 389      | 407    | 405    | 415    | 400    |

See footnote at end of table



TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |          |          |
|-------------------------|--|--------|-----------|---------|----------|----------|
|                         | July   | August | September | October | November | December |
| United States:          |  |        |           |         |          |          |
| 1925 <sup>1</sup> ..... | 18,503   | 19,426 | 20,288    | 21,281  | 21,623   | 21,149   |
| 1923 <sup>1</sup> ..... | 21,711   | 22,293 | 22,943    | 23,268  | 23,748   | 23,678   |
| 1921 <sup>1</sup> ..... | 14,374   | 14,791 | 15,965    | 17,062  | 18,161   | 18,427   |
| 1919 <sup>1</sup> ..... | 24,202   | 24,508 | 24,719    | 20,902  | 21,201   | 22,483   |
| Illinois.....           | 4,839  | 4,986  | 5,252     | 5,580   | 5,703    | 5,626    |
| Indiana.....            | 2,170  | 2,239  | 2,346     | 2,505   | 2,467    | 2,194    |
| Massachusetts.....      | 1,515  | 1,533  | 1,607     | 1,641   | 1,667    | 1,647    |
| Michigan.....           | 1,003  | 1,080  | 1,106     | 1,093   | 1,144    | 1,077    |
| New Jersey.....         | 196  | 225    | 226       | 237     | 219      | 218      |
| New York.....           | 6,366  | 6,896  | 7,191     | 7,512   | 7,644    | 7,641    |
| Ohio.....               | 537  | 544    | 569       | 612     | 643      | 643      |
| Pennsylvania.....       | 569  | 580    | 624       | 634     | 628      | 639      |
| Wisconsin.....          | 371  | 396    | 402       | 413     | 420      | 409      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 85.6; 1923, 88.1; 1921, 77.3; 1919, 84.6.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE   | 1925    |                              | 1923             |                              | 1919             |                              |
|--|---------|------------------------------|------------------|------------------------------|------------------|------------------------------|
|  | Num-ber | Capac-ity                    | Num-ber          | Capac-ity                    | Num-ber          | Capac-ity                    |
| Prime movers, total.....                                     | 1,942   | <i>Horse-power</i><br>26,912 | 1,868            | <i>Horse-power</i><br>26,859 | 1,761            | <i>Horse-power</i><br>28,697 |
| Steam engines.....   | 83      | 14,224                       | 93               | 15,724                       | 122              | 19,015                       |
| Steam turbines.....  | 9       | 740                          |                  |                              |                  |                              |
| Internal-combustion engines.....                             | 2       | 171                          | 2                | 195                          | 6                | 623                          |
| Water wheels and turbines.....                               |         |                              |                  |                              | 1                | 100                          |
| Electric motors driven by purchased current.....             | 1,848   | 11,777                       | 1,773            | 10,940                       | 1,607            | 8,152                        |
| Electric motors, total.....                                  | 3,469   | 22,104                       | 2,854            | 17,636                       | 2,656            | 17,270                       |
| Driven by purchased current.....                             | 1,848   | 11,777                       | 1,773            | 10,940                       | 1,607            | 8,152                        |
| Driven by current generated in establish-ment reporting..... | 1,621   | 10,327<br><i>Kilo-watts</i>  | 1,081            | 6,696<br><i>Kilo-watts</i>   | 1,049            | 9,118<br><i>Kilo-watts</i>   |
| Electric generators.....                                     | 56      | 6,619                        | ( <sup>2</sup> ) | ( <sup>2</sup> )             | ( <sup>2</sup> ) | ( <sup>2</sup> )             |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 4.—PIANOS—PRODUCTION, BY CLASS, NUMBER, AND VALUE, BY STATES: 1919 TO 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. One of the "All other States," however, outranked some of the States shown separately. See "Detailed statistics of products," p. 1064]

| STATE                 | Census year | Total value <sup>1</sup> | UPRIGHT PIANOS |              | GRAND PIANOS |              |
|-----------------------|-------------|--------------------------|----------------|--------------|--------------|--------------|
|                       |             |                          | Number         | Value        | Number       | Value        |
| United States.....    | 1925        | \$91,354,434             | 236,592        | \$57,233,738 | 65,689       | \$34,120,696 |
|                       | 1923        | 101,982,081              | 288,955        | 72,619,941   | 54,095       | 29,362,140   |
|                       | 1921        | 64,074,912               | 195,498        | 50,244,947   | 22,338       | 13,820,965   |
|                       | 1919        | 94,388,233               | 315,750        | 82,742,081   | 22,391       | 11,646,152   |
| Illinois.....         | 1925        | 20,710,303               | 72,324         | 15,792,708   | 11,429       | 4,917,595    |
|                       | 1923        | 25,042,714               | 90,654         | 20,646,629   | 8,759        | 4,396,085    |
|                       | 1921        | 12,745,130               | 43,429         | 11,289,288   | 2,408        | 1,455,842    |
|                       | 1919        | 24,857,759               | 90,954         | 23,822,824   | 1,999        | 1,034,935    |
| Indiana.....          | 1925        | 8,848,375                | 31,603         | 6,650,005    | 8,032        | 2,198,370    |
|                       | 1923        | 8,635,550                | 27,931         | 7,221,834    | 4,524        | 1,413,716    |
|                       | 1921        | 4,362,200                | 18,525         | 4,287,090    | 114          | 75,110       |
|                       | 1919        | 7,977,902                | 29,420         | 7,897,712    | 169          | 80,190       |
| Massachusetts.....    | 1925        | 8,103,911                | 10,391         | 2,779,638    | 7,152        | 5,624,273    |
|                       | 1923        | 8,597,185                | 15,586         | 3,098,388    | 6,104        | 4,898,797    |
|                       | 1921        | 5,373,629                | 10,752         | 3,143,457    | 2,901        | 2,230,172    |
|                       | 1919        | 7,633,739                | 20,337         | 5,319,977    | 3,676        | 2,313,762    |
| Michigan.....         | 1925        | 5,344,228                | 18,486         | 4,644,723    | 1,450        | 699,505      |
|                       | 1923        | 5,924,315                | 21,364         | 5,376,102    | 1,135        | 548,218      |
|                       | 1921        | 3,594,517                | 12,465         | 3,445,209    | 254          | 149,308      |
|                       | 1919        | 4,866,044                | 18,779         | 4,832,897    | 61           | 33,147       |
| New Jersey.....       | 1925        | 964,790                  | 2,043          | 707,413      | 423          | 257,377      |
|                       | 1923        | 960,810                  | 2,371          | 806,585      | 286          | 154,225      |
|                       | 1921        | 928,671                  | 1,994          | 700,278      | 328          | 228,393      |
|                       | 1919        | 1,246,918                | 3,585          | 970,256      | 779          | 276,602      |
| New York.....         | 1925        | 34,295,958               | 69,955         | 19,003,031   | 28,902       | 15,292,927   |
|                       | 1923        | 38,610,280               | 91,962         | 25,227,115   | 26,705       | 13,383,165   |
|                       | 1921        | 26,948,385               | 79,519         | 19,502,088   | 13,401       | 7,446,297    |
|                       | 1919        | 34,139,831               | 104,885        | 27,790,651   | 13,208       | 6,349,180    |
| Ohio.....             | 1925        | 3,921,602                | 8,760          | 1,761,112    | 4,457        | 2,160,490    |
|                       | 1923        | 3,689,807                | 8,860          | 2,160,271    | 2,865        | 1,529,536    |
|                       | 1921        | 2,591,104                | 7,008          | 1,899,658    | 1,162        | 691,446      |
|                       | 1919        | 2,923,512                | 11,686         | 2,622,547    | 585          | 300,965      |
| Pennsylvania.....     | 1925        | 2,990,239                | 8,684          | 2,414,804    | 1,278        | 575,435      |
|                       | 1923        | 3,445,403                | 11,623         | 3,133,626    | 814          | 311,777      |
|                       | 1921        | 2,550,420                | 7,613          | 2,397,540    | 314          | 152,880      |
|                       | 1919        | 2,926,937                | 10,823         | 2,827,617    | 242          | 99,320       |
| Wisconsin.....        | 1925        | 2,458,268                | 10,233         | 2,439,172    | 57           | 19,096       |
|                       | 1923        | 1,963,009                | 9,072          | 1,942,054    | 42           | 20,955       |
|                       | 1921        | 1,147,855                | 5,389          | 1,139,259    | 20           | 8,596        |
|                       | 1919        | 2,631,532                | 9,977          | 2,625,109    | 15           | 6,423        |
| All other States..... | 1925        | 3,416,760                | 4,113          | 1,041,132    | 2,509        | 2,375,628    |
|                       | 1923        | 5,113,008                | 9,532          | 2,407,337    | 2,861        | 2,705,671    |
|                       | 1921        | 3,833,001                | 8,804          | 2,441,080    | 1,436        | 1,391,921    |
|                       | 1919        | 5,184,059                | 15,304         | 4,032,491    | 1,657        | 1,151,568    |

<sup>1</sup> Not including value of automatic and electric pianos, which can not be shown by States without disclosing operations of individual establishments. (For industry totals for the United States, see Table 1, p. 1070.)

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States .....                 | 142                      | 21,904                          | 18                           | 1,807                           | 20,079                        | 26,912      |
| Illinois .....                      | 26                       | 5,525                           | 5                            | 310                             | 5,210                         | 7,544       |
| Indiana .....                       | 8                        | 2,331                           | -----                        | 162                             | 2,169                         | 2,219       |
| Massachusetts .....                 | 10                       | 1,787                           | 3                            | 136                             | 1,648                         | 2,635       |
| Michigan .....                      | 6                        | 1,135                           | -----                        | 81                              | 1,054                         | 1,522       |
| New Jersey .....                    | 5                        | 260                             | -----                        | 29                              | 231                           | 457         |
| New York .....                      | 65                       | 7,996                           | 8                            | 316                             | 7,172                         | 8,612       |
| Ohio .....                          | 5                        | 642                             | -----                        | 62                              | 580                           | 813         |
| Pennsylvania .....                  | 5                        | 668                             | 2                            | 53                              | 613                           | 1,442       |
| Wisconsin .....                     | 6                        | 454                             | -----                        | 54                              | 400                           | 799         |
| All other States <sup>1</sup> ..... | 6                        | 1,106                           | -----                        | 104                             | 1,002                         | 1,469       |

| STATE                               | Salaries    | Wages        | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-------------|--------------|------------------------|-------------------|-------------------|---|
| United States .....                 | \$4,574,128 | \$28,096,207 | \$365,944              | \$49,295,643      | \$101,180,777     | \$51,885,134                            |
| Illinois .....                      | 883,140     | 7,646,783    | 355,368                | 10,669,810        | 25,112,545        | 14,442,735                              |
| Indiana .....                       | 285,551     | 2,425,315    | -----                  | 4,372,594         | 8,848,975         | 4,476,381                               |
| Massachusetts .....                 | 302,219     | 2,418,322    | -----                  | 3,657,009         | 8,645,623         | 4,988,614                               |
| Michigan .....                      | 371,478     | 1,397,448    | -----                  | 2,811,214         | 5,715,369         | 2,904,155                               |
| New Jersey .....                    | 104,636     | 349,274      | -----                  | 387,400           | 944,276           | 556,876                                 |
| New York .....                      | 2,001,394   | 10,468,651   | 5,185                  | 19,910,546        | 38,031,499        | 18,120,953                              |
| Ohio .....                          | 133,546     | 838,771      | -----                  | 2,553,818         | 4,037,059         | 1,483,241                               |
| Pennsylvania .....                  | 130,067     | 758,343      | -----                  | 1,710,043         | 3,056,068         | 1,346,025                               |
| Wisconsin .....                     | 144,828     | 549,280      | -----                  | 1,277,659         | 2,525,668         | 1,248,009                               |
| All other States <sup>2</sup> ..... | 217,269     | 1,244,020    | 5,391                  | 1,945,550         | 4,263,695         | 2,318,145                               |

<sup>1</sup> Not including 88 salaried officers and employees of central administrative offices, with salaries aggregating \$341,875. For purposes of comparison with the statistics published for earlier years, these figures should be added to those given in the table, making combined totals of 1,895 salaried officers and employees and \$4,916,003. (See "Central-administrative-office employees," p. 1193.)

<sup>2</sup> Connecticut, 1 establishment; Kentucky, 1; Maryland, 2; Minnesota, 2.

<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

## PIANO AND ORGAN MATERIALS

**Description of the industry.**—This industry classification is applied to establishments engaged primarily in the manufacture of piano and organ materials and parts for sale as such. The distinctive products include, among others, piano strings, plates, keys, actions, keyboards, cases, back frames, pedal attachments, hammers, sounding boards, legs, and bridges; organ reeds, pipes, stops, knobs, pedals, and reed boards; and perforated music rolls for player pianos.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--------------------------------------|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|------------------|
| 1925.....                            | 94                       | 8,618                         | \$10,131,137 | \$157,935              | \$15,293,635                   | \$36,836,238      | \$21,542,603                            | 15,734           |
| 1923.....                            | 99                       | 9,672                         | 11,243,188   | 48,563                 | 17,019,395                     | 38,833,735        | 21,819,340                              | 15,478           |
| 1921.....                            | 89                       | 5,569                         | 5,969,804    | 21,150                 | 8,221,840                      | 18,597,436        | 10,375,596                              | ( <sup>3</sup> ) |
| 1919.....                            | 113                      | 11,009                        | 10,467,137   | 15,172                 | 16,693,140                     | 36,789,627        | 20,096,487                              | 15,716           |
| 1914.....                            | 138                      | 10,616                        | 5,654,557    | 21,284                 | 9,501,766                      | 19,875,762        | 10,373,996                              | 14,569           |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                       | ( <sup>5</sup> )         | -10.9                         | -9.9         | 225.2                  | -10.1                          | -5.2              | -1.3                                    | 1.7              |
| 1921-1923.....                       | ( <sup>5</sup> )         | 73.7                          | 88.3         | 129.6                  | 107.0                          | 108.8             | 110.3                                   | -----            |
| 1921-1925.....                       | ( <sup>5</sup> )         | 54.7                          | 69.7         | 646.7                  | 86.0                           | 98.1              | 107.6                                   | -----            |
| 1914-1925.....                       | -31.9                    | -18.8                         | 79.2         | 642.0                  | 61.0                           | 85.3              | 107.7                                   | 8.0              |

<sup>1</sup> Including also cost of fuel, electric power, mill supplies, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3.)

<sup>5</sup> Not shown where base is less than 100.

**TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925**

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |        |        |        |        |
|-------------------------|-------------------------------------|--|----------|--------|--------|--------|--------|
|                         |                                     | January  | February | March  | April  | May    | June   |
| United States:          |                                     |  |          |        |        |        |        |
| 1925 <sup>1</sup> ..... | 8,618                               | 9,133  | 8,940    | 8,919  | 8,305  | 8,100  | 7,929  |
| 1923 <sup>1</sup> ..... | 9,672                               | 9,477  | 9,703    | 9,813  | 9,807  | 9,580  | 9,544  |
| 1921 <sup>1</sup> ..... | 5,569                               | 4,735  | 4,559    | 4,818  | 5,033  | 5,221  | 4,832  |
| 1919 <sup>1</sup> ..... | 11,009                              | 9,103  | 9,914    | 10,402 | 10,903 | 10,984 | 11,045 |
| Connecticut.....        | 1,166                               | 1,251  | 1,236    | 1,182  | 1,083  | 1,037  | 1,018  |
| Illinois.....           | 1,288                               | 1,326  | 1,290    | 1,313  | 1,246  | 1,251  | 1,177  |
| Massachusetts.....      | 1,114                               | 1,295  | 1,187    | 1,189  | 1,095  | 1,089  | 1,034  |
| New Jersey.....         | 634                                 | 594  | 622      | 663    | 634    | 614    | 593    |
| New York.....           | 2,919                               | 3,136  | 3,088    | 3,034  | 2,762  | 2,675  | 2,701  |
| Ohio.....               | 1,123                               | 1,175  | 1,156    | 1,169  | 1,121  | 1,074  | 1,062  |
| Pennsylvania.....       | 153                                 | 151  | 152      | 151    | 146    | 148    | 147    |

See footnote at end of table

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |          |          |
|-------------------------|--|--------|-----------|---------|----------|----------|
|                         | July   | August | September | October | November | December |
| United States:          |  |        |           |         |          |          |
| 1925 <sup>1</sup> ..... | 8,058  | 8,368  | 8,681     | 9,021   | 9,089    | 8,875    |
| 1923 <sup>1</sup> ..... | <i>2,191</i>   | 9,773  | 9,869     | 9,892   | 9,757    | 9,688    |
| 1921 <sup>1</sup> ..... | 5,304  | 5,759  | 6,022     | 6,656   | 7,003    | 7,068    |
| 1919 <sup>1</sup> ..... | 11,816   | 11,967 | 11,705    | 11,227  | 11,316   | 11,736   |
| Connecticut.....        | 1,157  | 1,131  | 1,173     | 1,236   | 1,288    | 1,205    |
| Illinois.....           | 1,155  | 1,286  | 1,337     | 1,357   | 1,379    | 1,346    |
| Massachusetts.....      | 989  | 1,027  | 1,051     | 1,150   | 1,137    | 1,119    |
| New Jersey.....         | 619  | 607    | 666       | 665     | 672      | 662      |
| New York.....           | 2,733  | 2,850  | 2,967     | 3,053   | 3,042    | 2,982    |
| Ohio.....               | 1,065  | 1,104  | 1,116     | 1,162   | 1,147    | 1,130    |
| Pennsylvania.....       | 150  | 152    | 156       | 157     | 163      | 165      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 86.8; 1923, 93.1; 1921, 61.5; 1919, 76.1.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                       | 1923             |                       | 1919             |                       |
|---|---------|-----------------------|------------------|-----------------------|------------------|-----------------------|
|   | Num-ber | Capac-ity             | Num-ber          | Capac-ity             | Num-ber          | Capac-ity             |
| Prime movers, total.....                                    | 1,269   | Horse-power<br>15,734 | 1,045            | Horse-power<br>15,478 | 838              | Horse-power<br>15,716 |
| Steam engines.....  | 39      | 7,115                 | 38               | 9,060                 | 55               | 9,675                 |
| Steam turbines.....   | 6       | 180                   |                  |                       |                  |                       |
| Internal-combustion engines.....                            | 5       | 485                   | 4                | 280                   | 11               | 469                   |
| Water wheels and turbines.....                              | 3       | 95                    | 3                | 45                    | 13               | 336                   |
| Electric motors driven by purchased current.....            | 1,216   | 7,859                 | 1,000            | 6,093                 | 757              | 5,181                 |
| Electric motors, total.....                                 | 2,243   | 15,081                | 1,588            | 11,679                | 1,404            | 9,390                 |
| Driven by purchased current.....                            | 1,216   | 7,859                 | 1,000            | 6,093                 | 757              | 5,181                 |
| Driven by current generated in establishment reporting..... | 1,027   | 7,222<br>Kilo-watts   | 588              | 5,586<br>Kilo-watts   | 647              | 4,209<br>Kilo-watts   |
| Electric generators.....                                    | 43      | 5,118                 | ( <sup>2</sup> ) | ( <sup>2</sup> )      | ( <sup>2</sup> ) | ( <sup>2</sup> )      |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 4.—GENERAL STATISTICS, BY STATES: 1925

(This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments)

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 94                       | 9,638                           | 25                           | 1,995                           | 8,618                         | 15,734      |
| Connecticut.....                    | 6                        | 1,326                           | 4                            | 156                             | 1,166                         | 2,389       |
| Illinois.....                       | 13                       | 1,464                           | 3                            | 173                             | 1,288                         | 1,955       |
| Massachusetts.....                  | 16                       | 1,227                           | 6                            | 107                             | 1,114                         | 1,830       |
| New Jersey.....                     | 8                        | 723                             | 3                            | 91                              | 634                           | 1,567       |
| New York.....                       | 28                       | 3,257                           | 2                            | 336                             | 2,919                         | 5,238       |
| Ohio.....                           | 6                        | 1,200                           | 2                            | 75                              | 1,123                         | 1,709       |
| Pennsylvania.....                   | 6                        | 177                             | 3                            | 21                              | 153                           | 80          |
| All other States <sup>1</sup> ..... | 11                       | 259                             | 2                            | 36                              | 221                           | 966         |

  

| STATE                               | Salaries    | Wages        | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-------------|--------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$2,514,860 | \$10,131,137 | \$157,935              | \$15,293,635      | \$36,836,238      | \$21,542,603                            |
| Connecticut.....                    | 379,138     | 1,140,014    | 117,918                | 2,112,882         | 4,688,690         | 2,575,808                               |
| Illinois.....                       | 486,398     | 1,567,368    | 6,880                  | 2,779,510         | 6,758,481         | 3,978,971                               |
| Massachusetts.....                  | 315,141     | 1,321,914    | 11,000                 | 1,733,594         | 4,148,571         | 2,414,977                               |
| New Jersey.....                     | 172,155     | 766,060      | -----                  | 898,859           | 2,057,731         | 1,158,872                               |
| New York.....                       | 821,870     | 3,442,216    | 18,954                 | 5,590,411         | 13,556,807        | 7,966,396                               |
| Ohio.....                           | 186,993     | 1,402,117    | -----                  | 1,270,601         | 3,590,857         | 2,320,256                               |
| Pennsylvania.....                   | 59,059      | 231,029      | -----                  | 336,402           | 805,453           | 469,051                                 |
| All other States <sup>2</sup> ..... | 94,106      | 260,419      | 3,183                  | 571,376           | 1,229,648         | 658,272                                 |

<sup>1</sup> Not including 6 salaried officers and employees of central administrative offices, with salaries aggregating \$16,459. For purposes of comparison with the statistics published for earlier years, these figures should be added to those given in the table, making combined totals of 1,001 salaried officers and employees and \$2,531,319. (See "Central-administrative-office employees," p. 1193.)

<sup>2</sup> California, 3 establishments; Indiana, 1; Maryland, 2; Minnesota, 1; Missouri, 1; Washington, 1; Wisconsin, 2.

<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

# MUSICAL INSTRUMENTS AND MATERIALS, NOT ELSEWHERE CLASSIFIED

**Description of the industry.**—This industry embraces manufactures of musical instruments other than pianos, organs, and orchestrions, and of parts and materials for such instruments.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power |
|--------------------------------------|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|-------------|
| 1925.....                            | 100                      | 4,556                         | \$6,519,956 | \$61,757               | \$5,575,183                    | \$20,329,301      | \$14,754,118                            | 4,907       |
| 1923.....                            | 106                      | 4,103                         | 5,841,976   | 91,815                 | 4,348,938                      | 15,619,438        | 11,270,500                              | 3,830       |
| 1921.....                            | 116                      | 3,424                         | 4,520,029   | 49,037                 | 3,325,345                      | 12,355,778        | 9,028,433                               | (3)         |
| 1919.....                            | 240                      | 4,113                         | 3,984,656   | 32,027                 | 4,444,729                      | 12,506,334        | 8,061,605                               | 4,219       |
| 1914.....                            | 241                      | 1,831                         | 1,160,512   | 14,601                 | 1,022,534                      | 3,624,667         | 2,602,088                               | 1,765       |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |             |                        |                                |                   |   |             |
| 1923-1925.....                       | -5.7                     | 11.0                          | 11.6        | -32.7                  | 28.2                           | 30.2              | 30.9                                    | 28.1        |
| 1921-1923.....                       | -8.6                     | 19.8                          | 29.2        | 87.2                   | 30.8                           | 26.4              | 24.8                                    | -----       |
| 1921-1925.....                       | -13.8                    | 33.1                          | 44.2        | 25.9                   | 67.7                           | 64.6              | 63.4                                    | -----       |
| 1914-1925.....                       | -58.5                    | 148.8                         | 461.8       | 323.0                  | 445.2                          | 460.9             | 467.0                                   | 178.0       |

<sup>1</sup> Including also cost of fuel, electric power, mill supplies, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3 p. 1078.)

**TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925**

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1079]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |       |       |       |       |
|-------------------------|-------------------------------------|--|----------|-------|-------|-------|-------|
|                         |                                     | January  | February | March | April | May   | June  |
| United States:          |                                     |  |          |       |       |       |       |
| 1925 <sup>1</sup> ..... | 4,556                               | 4,529  | 4,469    | 4,563 | 4,529 | 4,452 | 4,371 |
| 1923 <sup>1</sup> ..... | 4,103                               | 3,811  | 3,955    | 4,097 | 4,103 | 4,067 | 4,069 |
| 1921 <sup>1</sup> ..... | 3,424                               | 3,568  | 3,480    | 3,551 | 3,629 | 3,564 | 3,439 |
| 1919 <sup>1</sup> ..... | 4,113                               | 3,653  | 3,906    | 3,999 | 4,042 | 4,006 | 4,025 |
| California.....         | 66                                  | 69   | 62       | 61    | 61    | 63    | 65    |
| Illinois.....           | 863                                 | 826  | 847      | 837   | 877   | 845   | 830   |
| Indiana.....            | 1,914                               | 1,926  | 1,918    | 1,946 | 1,910 | 1,878 | 1,845 |
| Massachusetts.....      | 301                                 | 293  | 301      | 297   | 288   | 285   | 285   |
| Michigan.....           | 183                                 | 168  | 166      | 169   | 169   | 167   | 171   |
| New York.....           | 343                                 | 330  | 332      | 345   | 344   | 335   | 328   |
| Pennsylvania.....       | 135                                 | 130  | 132      | 133   | 136   | 136   | 135   |

See footnote at end of table

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |              |         |          |          |
|-------------------------|--|--------|--------------|---------|----------|----------|
|                         | July   | August | September    | October | November | December |
| United States:          |  |        |              |         |          |          |
| 1925 <sup>1</sup> ..... | <b>4,550</b>   | 4,403  | 4,550        | 4,718   | 4,861    | 4,900    |
| 1923 <sup>1</sup> ..... | 4,028  | 4,037  | 4,152        | 4,262   | 4,334    | 4,295    |
| 1921 <sup>1</sup> ..... | 3,354  | 3,173  | <b>3,149</b> | 3,268   | 3,451    | 3,525    |
| 1919 <sup>1</sup> ..... | 4,136  | 4,117  | 4,170        | 4,302   | 4,363    | 4,377    |
| California.....         | 66   | 66     | 64           | 68      | 70       | 72       |
| Illinois.....           | 836  | 834    | 866          | 887     | 910      | 906      |
| Indiana.....            | 1,838  | 1,843  | 1,893        | 1,945   | 2,004    | 2,025    |
| Massachusetts.....      | 269  | 289    | 297          | 326     | 333      | 350      |
| Michigan.....           | 173  | 180    | 195          | 210     | 218      | 216      |
| New York.....           | 312  | 335    | 354          | 365     | 367      | 368      |
| Pennsylvania.....       | 136  | 131    | 134          | 135     | 136      | 139      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 88.8; 1923, 87.9; 1921, 86.8; 1919, 88.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                             | 1923             |                                       | 1919             |                                       |
|---|---------|-----------------------------|------------------|---------------------------------------|------------------|---------------------------------------|
|   | Num-ber | Capac-ity                   | Num-ber          | Capac-ity                             | Num-ber          | Capac-ity                             |
| Prime movers, total.....                                    | 2,028   | <i>Horse-power</i><br>4,907 | 1,570            | <i>Horse-power</i><br>3,830           | 1,053            | <i>Horse-power</i><br>2,219           |
| Steam engines.....  | 2       | 100                         | 6                | 153                                   | 5                | 142                                   |
| Steam turbines.....   | 6       | 26                          |                  | 64                                    | 13               | 88                                    |
| Internal-combustion engines.....                            |         |                             |                  |                                       | 5                | 100                                   |
| Water wheels and turbines.....                              | 2,020   | 4,781                       | 1,556            | 3,613                                 | 1,030            | 2,889                                 |
| Electric motors driven by purchased current.....            |         |                             |                  |                                       |                  |                                       |
| Electric motors, total.....                                 | 2,020   | 4,781                       | 1,654            | 3,745                                 | 1,051            | 2,916                                 |
| Driven by purchased current.....                            | 2,020   | 4,781                       | 1,556            | 3,613                                 | 1,030            | 2,889                                 |
| Driven by current generated in establishment reporting..... |         |                             | 98               | 132                                   | 21               | 27                                    |
| Electric generators.....                                    |         | <i>Kilo-watts</i>           | ( <sup>2</sup> ) | <i>Kilo-watts</i><br>( <sup>2</sup> ) | ( <sup>2</sup> ) | <i>Kilo-watts</i><br>( <sup>2</sup> ) |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.



TABLE 4.—WIND AND STRINGED INSTRUMENTS—PRODUCTION, BY VALUE, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, outranked some of the States shown separately. See "Detailed statistics of products," p. 1064]

| STATE                 | Wind instruments | Stringed instruments |
|-----------------------|------------------|----------------------|
| United States.....    | \$9,477,978      | \$5,858,714          |
| California.....       | 115,907          | 117,374              |
| Illinois.....         | 104,113          | 3,021,211            |
| Indiana.....          | 6,874,980        | (1)                  |
| New York.....         | 253,720          | 722,757              |
| Pennsylvania.....     | 126,152          | (1)                  |
| All other States..... | 2,003,106        | 1,997,372            |

<sup>1</sup> Included in "All other States" to avoid disclosing operations of individual establishments.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 100                      | 5,232                           | 61                           | 615                             | 4,556                         | 4,907       |
| California.....                     | 8                        | 83                              | 10                           | 7                               | 66                            | 61          |
| Illinois.....                       | 21                       | 988                             | 9                            | 116                             | 863                           | 1,099       |
| Indiana.....                        | 13                       | 2,115                           | 6                            | 195                             | 1,914                         | 1,551       |
| Massachusetts.....                  | 12                       | 354                             | 8                            | 45                              | 301                           | 161         |
| Michigan.....                       | 4                        | 236                             | 1                            | 52                              | 183                           | 257         |
| New York.....                       | 26                       | 412                             | 21                           | 43                              | 343                           | 730         |
| Pennsylvania.....                   | 7                        | 151                             | 2                            | 14                              | 135                           | 166         |
| All other States <sup>1</sup> ..... | 9                        | 893                             | 4                            | 133                             | 751                           | 882         |

| STATE                               | Salaries    | Wages       | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-------------|-------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$1,332,768 | \$6,519,956 | \$61,757               | \$5,575,183       | \$20,329,301      | \$14,754,118                            |
| California.....                     | 14,131      | 92,019      | 8,116                  | 56,689            | 235,678           | 178,989                                 |
| Illinois.....                       | 345,786     | 1,373,658   | 11,909                 | 1,935,381         | 5,071,533         | 3,136,152                               |
| Indiana.....                        | 426,883     | 2,756,971   | -----                  | 1,354,463         | 8,214,294         | 6,859,831                               |
| Massachusetts.....                  | 95,881      | 363,224     | 3,991                  | 365,998           | 1,102,843         | 736,845                                 |
| Michigan.....                       | 86,745      | 245,665     | -----                  | 336,566           | 914,088           | 577,522                                 |
| New York.....                       | 125,009     | 482,062     | 26,425                 | 596,223           | 1,615,244         | 1,019,021                               |
| Pennsylvania.....                   | 31,233      | 173,317     | -----                  | 103,818           | 414,155           | 310,337                                 |
| All other States <sup>1</sup> ..... | 207,100     | 1,033,040   | 11,316                 | 826,045           | 2,761,466         | 1,935,421                               |

<sup>1</sup> Connecticut, 2 establishments; Missouri, 1; New Jersey, 3; Ohio, 2; Wisconsin, 1.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

# PHONOGRAPHS

**Description of the industry.**—Establishments engaged primarily in the manufacture of machines for recording or reproducing speech, music, and other sounds, and of parts and accessories for such machines are classified in this industry. The parts and accessories include records, blanks, and cabinets, as well as constituent parts of the machines themselves.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--------------------------------------|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|------------------|
| 1925.....                            | 68                       | 11,267                        | \$14,144,955 | \$232,430              | \$24,847,094                   | \$61,057,147      | \$36,210,053                            | 45,782           |
| 1923.....                            | 111                      | 20,491                        | 24,969,685   | 182,157                | 45,250,327                     | 107,311,265       | 62,060,938                              | 41,160           |
| 1921.....                            | 154                      | 17,938                        | 21,773,750   | 1,101,802              | 41,057,508                     | 98,212,784        | 57,155,276                              | ( <sup>3</sup> ) |
| 1919.....                            | 166                      | 28,721                        | 33,963,148   | 1,751,018              | 59,740,205                     | 158,547,870       | 98,807,665                              | 40,163           |
| 1914.....                            | 18                       | 9,381                         | 6,341,495    | -----                  | 7,048,040                      | 27,115,916        | 20,067,876                              | 11,688           |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                       | -38.7                    | -45.0                         | -43.4        | 27.6                   | -45.1                          | -43.1             | -41.7                                   | 11.2             |
| 1921-1923.....                       | -27.9                    | 14.2                          | 14.7         | -83.5                  | 10.2                           | 9.3               | 8.6                                     | -----            |
| 1921-1925.....                       | -55.8                    | -37.2                         | -35.0        | -78.9                  | -39.5                          | -37.8             | -36.6                                   | -----            |
| 1914-1925.....                       | ( <sup>4</sup> )         | 20.1                          | 123.1        | -----                  | 252.5                          | 125.2             | 80.4                                    | 291.7            |

<sup>1</sup> Including also cost of fuel, electric power, mill supplies, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> This item differs slightly from the corresponding one published in the report for 1919 because of the exclusion here and the inclusion in the previous report of data for purchased power other than electric. (See footnote 1, Table 3, p. 1081.)

<sup>5</sup> Not shown where base is less than 100.

**TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925**

One State for which no figures are given in this table reported a larger number of wage earners than some of those for which statistics are shown. See headnote, Table 5 p. 1082]

| STATE              | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |        |        |        |        |
|--------------------|-------------------------------------|--|----------|--------|--------|--------|--------|
|                    |                                     | January  | February | March  | April  | May    | June   |
| United States:     |                                     |  |          |        |        |        |        |
| 1925.....          | 11,267                              | 11,604   | 11,035   | 10,113 | 9,110  | 8,514  | 8,488  |
| 1923.....          | 20,491                              | 18,335   | 19,665   | 20,231 | 20,037 | 19,222 | 19,053 |
| 1921.....          | 17,938                              | 20,408   | 20,105   | 19,987 | 18,309 | 17,312 | 16,674 |
| 1919.....          | 28,721                              | 23,897   | 25,642   | 26,754 | 27,581 | 28,269 | 29,601 |
| Connecticut.....   | 955                                 | 748  | 835      | 871    | 960    | 984    | 987    |
| Illinois.....      | 1,032                               | 1,220  | 1,174    | 1,114  | 1,018  | 947    | 884    |
| Indiana.....       | 424                                 | 415  | 412      | 404    | 384    | 302    | 318    |
| Massachusetts..... | 291                                 | 267  | 275      | 300    | 308    | 261    | 234    |
| Michigan.....      | 1,391                               | 2,091  | 1,742    | 1,368  | 977    | 943    | 924    |
| New Jersey.....    | 4,783                               | 4,231  | 3,874    | 3,546  | 3,263  | 3,114  | 3,208  |
| New York.....      | 596                                 | 705  | 716      | 643    | 458    | 427    | 436    |
| Ohio.....          | 31                                  | 21   | 38       | 46     | 51     | 37     | 22     |
| Wisconsin.....     | 504                                 | 527  | 538      | 512    | 454    | 368    | 396    |

See footnote at end of table

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |               |           |         |          |          |
|-------------------------|--|---------------|-----------|---------|----------|----------|
|                         | July   | August        | September | October | November | December |
| United States:          |  |               |           |         |          |          |
| 1925 <sup>1</sup> ..... | 8,752  | 10,583        | 12,656    | 13,847  | 14,856   | 15,648   |
| 1923 <sup>1</sup> ..... | 19,296   | 19,965        | 21,246    | 22,603  | 23,173   | 23,070   |
| 1921 <sup>1</sup> ..... | 15,755   | <i>14,696</i> | 15,756    | 17,845  | 19,390   | 19,020   |
| 1919 <sup>1</sup> ..... | 24,021   | 24,369        | 31,248    | 33,334  | 34,656   | 35,180   |
| Connecticut.....        | 902  | 864           | 1,037     | 1,110   | 1,063    | 1,102    |
| Illinois.....           | 854  | 829           | 892       | 975     | 1,195    | 1,285    |
| Indiana.....            | 384  | 426           | 471       | 492     | 532      | 543      |
| Massachusetts.....      | 219  | 246           | 304       | 341     | 381      | 352      |
| Michigan.....           | 1,100  | 1,264         | 1,489     | 1,656   | 1,640    | 1,800    |
| New Jersey.....         | 3,436  | 4,903         | 6,132     | 6,603   | 7,142    | 7,944    |
| New York.....           | 395  | 455           | 541       | 742     | 829      | 810      |
| Ohio.....               | 18   | 21            | 22        | 28      | 31       | 33       |
| Wisconsin.....          | 409  | 512           | 538       | 547     | 622      | 624      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 54.2; 1923, 79.1; 1921, 72; 1919, 68.2.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                             | 1923             |                             | 1919             |                             |
|---|---------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|
|   | Num-ber | Capacity                    | Num-ber          | Capacity                    | Num-ber          | Ca-pacity                   |
|   |         | <i>Horse-power</i>          |                  | <i>Horse-power</i>          |                  | <i>Horse-power</i>          |
| Prime movers, total.....                                    | 1,196   | 45,782                      | 1,586            | 41,160                      | 2,456            | 40,163                      |
| Steam engines.....  | 28      | 12,255                      | 67               | 26,934                      | 46               | 9,634                       |
| Steam turbines.....   | 9       | 22,335                      |                  |                             |                  |                             |
| Internal-combustion engines.....                            | 3       | 16                          | 3                | 152                         | 8                | 12,289                      |
| Water wheels and turbines.....                              | 1       | 125                         | 1                | 30                          | 2                | 366                         |
| Electric motors driven by purchased current.....            | 1,155   | 11,051                      | 1,515            | 14,044                      | 2,392            | 17,649                      |
| Electric motors, total.....                                 | 4,183   | 43,024                      | 3,640            | 40,684                      | 3,641            | 32,193                      |
| Driven by purchased current.....                            | 1,155   | 11,051                      | 1,515            | 14,044                      | 2,392            | 17,649                      |
| Driven by current generated in establishment reporting..... | 3,028   | 31,973<br><i>Kilo-watts</i> | 2,125            | 26,640<br><i>Kilo-watts</i> | 1,249            | 14,544<br><i>Kilo-watts</i> |
| Electric generators.....                                    | 28      | 16,790                      | ( <sup>2</sup> ) | ( <sup>2</sup> )            | ( <sup>2</sup> ) | ( <sup>2</sup> )            |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1919 TO 1925

| CLASS   | 1925           | 1923            | 1921           | 1919            |
|---|----------------|-----------------|----------------|-----------------|
| Total value <sup>1</sup> .....                        | \$61, 057, 147 | \$107, 311, 265 | \$98, 212, 784 | \$158, 547, 870 |
| Phonographs (including dictating machines):           |                |                 |                |                 |
| Number.....   | 642, 015       | 997, 459        | 596, 033       | 2, 226, 406     |
| Value.....  | \$22, 613, 909 | \$57, 037, 060  | \$38, 604, 739 | \$91, 568, 943  |
| Parts and accessories for sale as such, total value.. | \$33, 111, 775 | \$48, 474, 264  | \$55, 572, 291 | \$60, 467, 954  |
| Records and blanks—                                   |                |                 |                |                 |
| Number.....   | 82, 125, 060   | 98, 104, 279    | 105, 191, 929  | 106, 996, 510   |
| Value.....  | \$26, 790, 847 | \$36, 372, 410  | \$47, 843, 856 | \$44, 688, 795  |
| Needles, value.....                                   | \$960, 831     | \$1, 464, 964   | \$1, 134, 135  | \$1, 609, 002   |
| Cabinets, value <sup>2</sup> .....                    | \$2, 816, 718  | \$2, 544, 203   | \$1, 683, 290  | \$3, 653, 418   |
| Other parts, value.....                               | \$2, 543, 379  | \$8, 092, 682   | \$4, 911, 010  | \$10, 515, 739  |
| Receipts for custom work, repairing, etc.....         | \$295, 583     | \$407, 998      | \$452, 223     | \$268, 803      |
| All other products <sup>3</sup> .....                 | \$5, 035, 880  | \$1, 391, 943   | \$3, 583, 531  | \$6, 242, 170   |

<sup>1</sup> In addition, phonographs and parts, not distributed as to class, were reported as secondary products by establishments engaged in other lines of manufacture, to the following values: For 1925, \$3,603,378; for 1923, \$1,301,787; for 1921, \$1,404,394; for 1919, \$7,173,143.

<sup>2</sup> Phonograph cabinets are also made to some extent by establishments classified in the furniture industry. The figures here given relate only to cabinets made for sale as such by establishments engaged primarily in the manufacture of phonographs and phonograph cabinets.

<sup>3</sup> Chiefly radio sets, cabinets, and parts.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. One of the "All other States," however, reported a larger value of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 68                       | 13, 150                         | 15                           | 1, 868                          | 11, 267                       | 45, 782     |
| Connecticut.....                    | 5                        | 1, 109                          | -----                        | 154                             | 955                           | 3, 227      |
| Illinois.....                       | 15                       | 1, 186                          | 6                            | 148                             | 1, 032                        | 2, 164      |
| Indiana.....                        | 5                        | 472                             | 5                            | 43                              | 424                           | 2, 567      |
| Massachusetts.....                  | 4                        | 357                             | 1                            | 65                              | 291                           | 686         |
| Michigan.....                       | 5                        | 1, 520                          | -----                        | 129                             | 1, 391                        | 4, 854      |
| New Jersey.....                     | 7                        | 5, 784                          | -----                        | 1, 001                          | 4, 783                        | 27, 081     |
| New York.....                       | 7                        | 730                             | 2                            | 132                             | 596                           | 747         |
| Ohio.....                           | 5                        | 41                              | -----                        | 10                              | 31                            | 173         |
| Wisconsin.....                      | 4                        | 575                             | -----                        | 71                              | 504                           | 2, 055      |
| All other States <sup>1</sup> ..... | 11                       | 1, 376                          | 1                            | 115                             | 1, 260                        | 2, 228      |

  

| STATE                               | Salaries      | Wages          | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|---------------|----------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$4, 380, 763 | \$14, 144, 955 | \$232, 430             | \$24, 847, 094    | \$61, 057, 147    | \$36, 210, 053                          |
| Connecticut.....                    | 318, 365      | 1, 158, 704    | -----                  | 1, 837, 981       | 6, 156, 053       | 4, 318, 072                             |
| Illinois.....                       | 319, 875      | 1, 402, 144    | 30, 821                | 2, 065, 925       | 4, 964, 246       | 2, 898, 321                             |
| Indiana.....                        | 32, 297       | 329, 879       | -----                  | 403, 544          | 883, 707          | 480, 163                                |
| Massachusetts.....                  | 109, 592      | 317, 027       | 67, 344                | 601, 098          | 1, 285, 693       | 684, 595                                |
| Michigan.....                       | 243, 016      | 1, 776, 438    | -----                  | 5, 366, 304       | 9, 432, 802       | 4, 066, 498                             |
| New Jersey.....                     | 2, 664, 770   | 6, 596, 169    | 122, 846               | 8, 374, 089       | 25, 796, 166      | 17, 422, 077                            |
| New York.....                       | 263, 284      | 709, 653       | 2, 633                 | 1, 443, 552       | 3, 264, 609       | 1, 821, 057                             |
| Ohio.....                           | 26, 219       | 33, 971        | -----                  | 109, 753          | 211, 025          | 110, 272                                |
| Wisconsin.....                      | 201, 682      | 578, 839       | 8, 000                 | 1, 412, 879       | 2, 780, 916       | 1, 368, 037                             |
| All other States <sup>1</sup> ..... | 199, 663      | 1, 251, 531    | 786                    | 3, 240, 969       | 6, 281, 930       | 3, 040, 961                             |

<sup>1</sup> California, 3 establishments; Iowa, 2; Minnesota, 1; Missouri, 1; Pennsylvania, 4.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> See footnote 1, Table 4.

## **Group 14.—TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER**

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### **THE GROUP AS A WHOLE**

This group embraces those industries which are engaged primarily in the manufacture of aircraft, vehicles for land transportation, locomotives, and water craft. The several classes of products are airplanes and seaplanes; automobiles, motor trucks, motor busses, and motor cycles; bicycles; carriages, wagons, sleighs, and sleds; baby carriages and other vehicles for children; wheelbarrows; locomotives, steam and electric; railway cars, steam and electric; and all types of ships and boats. No changes were made, at the census for 1925, in the group as constituted at the census for 1923.

The repair shops of steam and electric railroads manufacture some cars and locomotives, but the greater part of their work consists in the repairing of cars and locomotives, and some of it has no connection with rolling stock. For these reasons, and because of the fact that the method of valuing their production differs from the methods employed in most other industries, railroad repair shops have been classified as a separate industry group, No. 15.

The combined value of products for Groups 14 and 15 for 1925 amounts to \$6,784,432,512, which represents the manufacture of all classes of transportation equipment and the repair of all railroad rolling stock. Comparative figures for 1923, 1921, and 1919 are \$6,853,572,126, \$4,285,496,880, and \$6,981,709,084, respectively.

The following table gives summary statistics for the group as a whole and for each industry separately. On pages 1085 to 1147 are detailed reports for those industries for which statistics have been published in pamphlet form.

SUMMARY FOR GROUP 14, TRANSPORTATION EQUIPMENT, AIR, LAND, AND WATER:  
1919 TO 1925

[Data for establishments reporting products valued at less than \$5,000 are included in the figures for 1919 but not in those for subsequent years]

| INDUSTRY   | Cen-<br>sus<br>year | Num-<br>ber of<br>estab-<br>lish-<br>ments | Wage<br>earners<br>(average<br>number) | Wages     | Cost of<br>materials | Value of<br>products | Value<br>added by<br>manu-<br>facture | Horse-<br>power  |
|--|---------------------|--|--|-----------|----------------------|----------------------|---------------------------------------|------------------|
|  |                     |  |  |           |                      |                      |                                       |                  |
| Total-----   | 1925                | 2,778                                      | 559,578                                | 908,488   | 3,389,101            | 5,451,753            | 2,062,652                             | 1,888,961        |
|  | 1923                | 3,873                                      | 606,328                                | 963,939   | 3,394,505            | 5,333,480            | 1,938,975                             | 1,624,468        |
|  | 1921                | 4,273                                      | 405,773                                | 591,333   | 1,803,011            | 3,018,155            | 1,215,144                             | ( <sup>1</sup> ) |
|  | 1919                | 6,768                                      | 858,582                                | 1,259,015 | 3,200,603            | 5,627,265            | 2,426,662                             | 1,453,804        |
| Aircraft and parts-----  | 1925                | 44   | 2,701                                  | 4,222     | 2,870                | 12,525               | 9,655                                 | 3,735            |
|  | 1923                | 33   | 2,901                                  | 4,522     | 3,830                | 12,945               | 9,115                                 | 5,443            |
|  | 1921                | 21   | 1,395                                  | 2,202     | 2,407                | 6,642                | 4,235                                 | ( <sup>1</sup> ) |
|  | 1919                | 31   | 3,543                                  | 4,907     | 7,127                | 14,873               | 7,246                                 | 12,512           |
| Carriage, wagon, sleigh,<br>and sled materials.                                | 1925                | 81   | 1,389                                  | 1,216     | 2,659                | 5,118                | 2,459                                 | 8,689            |
|  | 1923                | 109  | 1,983                                  | 1,591     | 4,004                | 7,813                | 3,309                                 | 10,647           |
|  | 1921                | 141  | 2,747                                  | 2,555     | 6,135                | 10,787               | 4,652                                 | ( <sup>1</sup> ) |
|  | 1919                | 258  | 6,509                                  | 5,667     | 14,735               | 26,765               | 12,030                                | 23,672           |
| Carriages and sleds, chil-<br>dren's.  | 1925                | 86   | 6,926                                  | 7,924     | 13,553               | 30,173               | 16,620                                | 9,853            |
|  | 1923                | 100  | 8,324                                  | 8,856     | 15,936               | 34,173               | 18,237                                | 9,376            |
|  | 1921                | 89   | 5,460                                  | 5,678     | 9,517                | 21,717               | 12,200                                | ( <sup>1</sup> ) |
|  | 1919                | 103  | 6,686                                  | 6,229     | 11,700               | 24,507               | 12,807                                | 6,071            |
| Carriages, wagons, sleighs,<br>and sleds. <sup>2</sup>                         | 1925                | 152  | 4,833                                  | 5,792     | 12,860               | 24,935               | 12,075                                | 20,449           |
|  | 1923                | 396  | 8,109                                  | 9,319     | 18,683               | 37,373               | 18,690                                | 26,509           |
|  | 1921                | 837  | 8,025                                  | 9,903     | 16,884               | 33,114               | 16,230                                | ( <sup>1</sup> ) |
|  | 1919                | 2,297                                      | 18,464                                 | 19,664    | 49,333               | 93,143               | 43,810                                | 41,081           |
| Cars, steam and electric<br>railroad, not built in rail-<br>road repair shops. | 1925                | 141  | 50,393                                 | 77,247    | 266,053              | 390,771              | 124,718                               | 243,934          |
|  | 1923                | 139  | 80,590                                 | 129,178   | 413,660              | 604,351              | 190,691                               | 250,102          |
|  | 1921                | 118  | 48,033                                 | 70,945    | 211,938              | 340,536              | 128,598                               | ( <sup>1</sup> ) |
|  | 1919                | 106  | 55,218                                 | 82,417    | 368,144              | 556,665              | 188,521                               | 167,180          |
| Locomotives, not made in<br>railroad repair shops.                             | 1925                | 18   | 12,809                                 | 18,219    | 41,717               | 65,389               | 23,672                                | 114,209          |
|  | 1923                | 19   | 30,672                                 | 51,867    | 124,261              | 215,393              | 91,132                                | 91,214           |
|  | 1921                | 22   | 16,583                                 | 20,473    | 55,412               | 102,023              | 46,611                                | ( <sup>1</sup> ) |
|  | 1919                | 17   | 26,715                                 | 38,799    | 72,376               | 156,270              | 83,894                                | 96,504           |
| Motor-vehicle bodies and<br>motor-vehicle parts.                               | 1925                | 1,358                                      | 228,382                                | 372,721   | 862,721              | 1,523,279            | 660,558                               | 662,255          |
|  | 1923                | 2,120                                      | 163,530                                | 253,147   | 564,107              | 1,013,113            | 449,006                               | 425,088          |
|  | 1921                | 1,974                                      | 69,119                                 | 96,779    | 213,965              | 408,017              | 194,052                               | ( <sup>1</sup> ) |
|  | 1919                | 2,515                                      | 132,556                                | 178,956   | 362,027              | 692,171              | 330,144                               | 256,770          |
| Motor vehicles, not includ-<br>ing motor cycles.                               | 1925                | 297  | 197,728                                | 341,210   | 2,108,192            | 3,198,123            | 1,089,931                             | 509,758          |
|  | 1923                | 351  | 241,356                                | 406,730   | 2,147,463            | 3,163,328            | 1,015,865                             | 435,545          |
|  | 1921                | 385  | 143,658                                | 221,974   | 1,107,062            | 1,671,387            | 564,325                               | ( <sup>1</sup> ) |
|  | 1919                | 315  | 210,559                                | 312,166   | 1,578,652            | 2,387,903            | 809,251                               | 282,323          |
| Motor cycles, bicycles, and<br>parts.  | 1925                | 36   | 4,193                                  | 5,662     | 12,177               | 24,258               | 12,081                                | 12,609           |
|  | 1923                | 39   | 6,576                                  | 8,010     | 18,003               | 32,259               | 14,256                                | 14,840           |
|  | 1921                | 46   | 4,308                                  | 4,981     | 10,323               | 23,098               | 12,775                                | ( <sup>1</sup> ) |
|  | 1919                | 51   | 10,886                                 | 12,763    | 25,986               | 53,106               | 27,120                                | 14,420           |
| Ship and boat building,<br>steel and wooden, includ-<br>ing repair work.       | 1925                | 565  | 50,224                                 | 74,275    | 66,299               | 177,182              | 110,883                               | 303,470          |
|  | 1923                | 567  | 62,287                                 | 90,719    | 84,558               | 213,232              | 128,674                               | 317,712          |
|  | 1921                | 640  | 106,445                                | 155,943   | 169,368              | 400,834              | 231,466                               | ( <sup>1</sup> ) |
|  | 1919                | 1,075                                      | 387,446                                | 597,447   | 710,523              | 1,622,362            | 911,839                               | 553,271          |

<sup>1</sup> Not called for on schedule.<sup>2</sup> Repairing included for 1921 and 1919 but not for 1925 and 1923. The differences between the figures for this industry for 1923, 1921, and 1919, as given here and as published in previous reports, are due to the inclusion here and the exclusion from the previous reports of data for the manufacture of wheelbarrows, formerly classified as a separate industry.

## AIRCRAFT

[A preliminary report for this industry was issued under date of July 19, 1926]

**Description of the industry.**—The establishments covered by the industry designation "Aircraft" are those engaged primarily in the manufacture of complete aircraft, or of aircraft parts other than engines and tires, or in the repair of aircraft. Establishments operated by the Federal Government are not included. Establishments engaged primarily in the manufacture of aircraft engines for sale as such are classified in the "Engines and water wheels" industry. (The engines for which data are given in Table 4 were made as secondary products by manufacturers of complete aircraft.)

**Comparison with previous years.**—The statistics for 1919 are not strictly comparable with those for later census years, for the reason that establishments engaged primarily in the manufacture of aircraft parts, other than engines and tires, have been classified in the "Aircraft" industry at the last three censuses, whereas at the census for 1919 only manufacturers of complete aircraft were so classified. The pronounced decrease from 1919 to 1921 was due in some measure to the fact that the production in 1919 included the completion of contracts for the construction of aircraft intended for use in the World War, and was, therefore, abnormal. The total value of products for 1923 was nearly double that reported for 1921 and was only 10 per cent less than the 1919 total. The slight decrease in the value of products between 1923 and 1925 was due to the fact that one large establishment which was classified in the "Aircraft" industry for 1923 was classified in another industry at the 1925 census.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages            | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power <sup>3</sup> |
|--------------------------------------|--------------------------|-------------------------------|------------------|------------------------|--------------------------------|-------------------|---|--------------------------|
| 1925-----                            | 44                       | 2,701                         | \$4,222,151      | \$249,540              | \$2,869,967                    | \$12,524,719      | \$9,654,752                             | 3,735                    |
| 1923-----                            | 33                       | 2,901                         | 4,521,949        | 149,464                | 3,829,574                      | 12,945,263        | 9,115,689                               | 5,443                    |
| 1921-----                            | 21                       | 1,395                         | 2,202,307        | 1,324                  | 2,407,395                      | 6,641,988         | 4,234,593                               | ( <sup>4</sup> )         |
| 1919-----                            | 31                       | 3,543                         | 4,906,740        | 13,645                 | 7,126,965                      | 14,372,643        | 7,245,678                               | 12,512                   |
| 1914-----                            | 16                       | 168                           | 134,827          | 12,428                 | 133,939                        | 789,872           | 655,933                                 | 195                      |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |                  |                        |                                |                   |   |                          |
| 1923-1925-----                       | ( <sup>5</sup> )         | —6.9                          | —6.6             | 67.0                   | —25.1                          | —3.2              | 5.9                                     | —31.4                    |
| 1921-1923-----                       | ( <sup>5</sup> )         | 108.0                         | 105.3            | ( <sup>5</sup> )       | 59.1                           | 94.9              | 115.3                                   | -----                    |
| 1921-1925-----                       | ( <sup>5</sup> )         | 93.6                          | 91.7             | ( <sup>5</sup> )       | 19.2                           | 88.6              | 128.0                                   | -----                    |
| 1914-1925-----                       | ( <sup>5</sup> )         | ( <sup>5</sup> )              | ( <sup>5</sup> ) | ( <sup>5</sup> )       | ( <sup>5</sup> )               | ( <sup>5</sup> )  | ( <sup>5</sup> )                        | ( <sup>5</sup> )         |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Total primary horsepower of factory power-plant equipment. (See Table 3, p. 1086.)

<sup>4</sup> Not called for on schedule.

<sup>5</sup> Not shown where base is less than 100 or where percentage is over 1,000.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than California. See headline, Table 5, p. 1087]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |       |       |       |       |
|-------------------------|-------------------------------------|--|----------|-------|-------|-------|-------|
|                         |                                     | January  | February | March | April | May   | June  |
| United States:          |                                     |  |          |       |       |       |       |
| 1925 <sup>1</sup> ..... | 2,701                               | 2,203  | 2,340    | 2,486 | 2,519 | 2,715 | 2,777 |
| 1923 <sup>1</sup> ..... | 2,901                               | 3,108  | 2,992    | 3,064 | 3,061 | 3,083 | 3,064 |
| 1921 <sup>1</sup> ..... | 1,395                               | 1,504  | 1,590    | 1,601 | 1,636 | 1,561 | 1,418 |
| 1919 <sup>1</sup> ..... | 3,543                               | 5,493  | 4,729    | 4,161 | 3,939 | 3,397 | 3,168 |
| California.....         | 203                                 | 119  | 135      | 158   | 134   | 123   | 155   |
| New York.....           | 890                                 | 710  | 737      | 796   | 804   | 897   | 928   |
| Ohio.....               | 616                                 | 530  | 576      | 655   | 689   | 735   | 706   |

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |          |          |
|-------------------------|--|--------|-----------|---------|----------|----------|
|                         | July   | August | September | October | November | December |
| United States:          |  |        |           |         |          |          |
| 1925 <sup>1</sup> ..... | 2,841  | 3,045  | 2,923     | 2,820   | 2,811    | 2,929    |
| 1923 <sup>1</sup> ..... | 3,061  | 2,965  | 2,883     | 2,664   | 2,499    | 2,373    |
| 1921 <sup>1</sup> ..... | 1,284  | 1,282  | 1,253     | 1,160   | 1,198    | 1,256    |
| 1919 <sup>1</sup> ..... | 3,109  | 2,944  | 2,840     | 2,799   | 2,971    | 2,966    |
| California.....         | 204  | 253    | 257       | 264     | 296      | 336      |
| New York.....           | 1,036  | 1,076  | 989       | 862     | 901      | 940      |
| Ohio.....               | 576  | 578    | 598       | 615     | 573      | 559      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 72.3; 1923, 76.4; 1921, 70.9; 1919, 51.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925   |               | 1923             |                             | 1919             |                             |
|---|--------|---------------|------------------|-----------------------------|------------------|-----------------------------|
|   | Number | Horse-power   | Number           | Horse-power                 | Number           | Horse-power                 |
| Prime movers, total.....                                    | 655    | 3,735         | 569              | 5,443                       | 685              | 12,512                      |
| Steam engines.....  | 1      | 35            | 1                | 25                          | 3                | 325                         |
| Steam turbines.....   |        |               |                  |                             |                  |                             |
| Internal-combustion engines.....                            | 41     | 299           | 1                | 50                          |                  |                             |
| Electric motors driven by purchased current.....            | 613    | 3,401         | 567              | 5,368                       | 682              | 12,187                      |
| Electric motors, total.....                                 | 626    | 3,424         | 568              | 5,383                       | 788              | 12,787                      |
| Driven by purchased current.....                            | 613    | 3,401         | 567              | 5,368                       | 682              | 12,187                      |
| Driven by current generated in establishment reporting..... | 13     | 23            | 1                | 15                          | 106              | 600                         |
| Electric generators.....                                    | 2      | Kilo-watts 10 | ( <sup>1</sup> ) | Kilo-watts ( <sup>1</sup> ) | ( <sup>1</sup> ) | Kilo-watts ( <sup>1</sup> ) |

<sup>1</sup> Not called for on schedule.



TABLE 4.—PRODUCTS, BY NUMBER AND VALUE, FOR THE UNITED STATES: 1919 TO 1925

|  | 1925                   | 1923             | 1921                     | 1919             |
|--|------------------------|------------------|--------------------------|------------------|
| Total value.....   | \$12,775,181           | \$13,142,364     | <sup>1</sup> \$7,430,824 | \$14,372,643     |
| The aircraft industry, all products, value.....                        | 12,524,719             | 12,945,263       | <sup>1</sup> 6,652,981   | 14,372,643       |
| Aircraft, engines, parts, and repair and experimental work, value..... | 12,375,499             | ( <sup>2</sup> ) | ( <sup>2</sup> )         | ( <sup>2</sup> ) |
| All other products, value.....   | 149,220                | ( <sup>2</sup> ) | ( <sup>2</sup> )         | ( <sup>2</sup> ) |
| Aircraft parts, secondary products of other industries, value.....     | 250,462                | 197,101          | <sup>3</sup> 777,843     | -----            |
| Aircraft completed within the year:                                    |                        |                  |                          |                  |
| Airplanes—   |                        |                  |                          |                  |
| Number.....  | 711                    | 505              | 290                      | 432              |
| Value.....   | \$5,908,335            | \$6,166,218      | \$3,818,340              | \$3,466,452      |
| Seaplanes—   |                        |                  |                          |                  |
| Number.....  | 78                     | 82               | 12                       | 230              |
| Value.....   | \$765,324              | \$1,570,851      | \$314,768                | \$4,580,016      |
| Aircraft under construction at close of year:                          |                        |                  |                          |                  |
| Number.....  | 259                    | 281              | 374                      | 341              |
| Value of work done during year.....                                    | \$1,428,447            | \$1,339,737      | \$966,322                | \$1,658,670      |
| All other aeronautical products, value.....                            | <sup>4</sup> \$728,970 | \$4,065,558      | \$2,331,394              | \$4,667,505      |
| Parts and engines for sale as such, value.....                         | \$3,794,885            |                  |                          |                  |
| All other products, value.....   | \$149,220              |                  |                          |                  |

<sup>1</sup> Includes \$10,933 reported by 4 establishments each having products valued at less than \$5,000.<sup>2</sup> Not reported separately.<sup>3</sup> Aircraft and parts.<sup>4</sup> Value of airships, balloons, parachutes, and repair and experimental work

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than California]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power <sup>1</sup> |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|--------------------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |                          |
| United States.....                  | 44                       | 3,363                           | 6                            | 656                             | 2,701                         | 3,735                    |
| California.....                     | 4                        | 253                             | 4                            | 46                              | 203                           | 60                       |
| New York.....                       | 15                       | 1,109                           | -----                        | 219                             | 890                           | 1,445                    |
| Ohio.....                           | 5                        | 756                             | -----                        | 140                             | 616                           | 482                      |
| All other States <sup>2</sup> ..... | 20                       | 1,245                           | 2                            | 251                             | 992                           | 1,748                    |

  

| STATE                               | Salaries    | Wages       | Paid for contract work | Cost of materials | Value of products         | Value added by manufacture <sup>3</sup> |
|-------------------------------------|-------------|-------------|------------------------|-------------------|---------------------------|---|
| United States.....                  | \$1,569,198 | \$4,222,151 | \$249,540              | \$2,869,967       | <sup>4</sup> \$12,524,719 | \$9,654,752                             |
| California.....                     | 76,684      | 343,343     | 9,909                  | 211,358           | 677,782                   | 466,421                                 |
| New York.....                       | 560,762     | 1,473,586   | 188,790                | 994,399           | 4,047,546                 | 3,053,147                               |
| Ohio.....                           | 325,671     | 926,114     | 10,672                 | 725,517           | 3,209,145                 | 2,483,628                               |
| All other States <sup>2</sup> ..... | 606,081     | 1,479,108   | 40,169                 | 938,693           | 4,590,246                 | 3,651,553                               |

<sup>1</sup> Total primary horsepower of factory power-plant equipment. (See Table 3.)<sup>2</sup> Colorado, 1 establishment; Connecticut, 1; Illinois, 2; Indiana, 1; Iowa, 1; Kansas, 2; Michigan, 2; Missouri, 2; Nebraska, 1; New Jersey, 2; Pennsylvania, 2; Texas, 1; Washington, 1; Wisconsin, 1.<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)<sup>4</sup> See first 5 lines, Table 4.

## CARRIAGES AND SLEDS, CHILDREN'S

[A preliminary report for this industry was issued under date of August 20, 1926]

**Description of the industry.**—The establishments classified in this industry are those engaged primarily in the manufacture of children's carriages and certain other classes of children's wheel goods, and children's sleds. Furniture, hand trucks, parts of agricultural implements, bicycles, and mops were reported to a considerable extent as secondary products by manufacturers of children's carriages and sleds.

**Decrease in number of establishments between 1923 and 1925.**—In 1923 the industry was represented by 100 establishments, the decrease to 86 being the result of a loss of 28 and a gain of 14. Some of the establishments lost to the industry were idle or out of business in 1925, and others were transferred to other industries because of changes in the character of their principal products.

**Comparability of statistics for earlier years.**—The census for 1925 was the first at which a special schedule calling for detailed data for numbers and values of products was used for this industry; therefore no comparable data, except for the total value of products, are available for earlier years.

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--------------------------------------|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|------------------|
| 1925.....                            | 86                       | 6,926                         | \$7,923,304 | \$5,684                | \$13,553,184                   | \$30,173,501      | \$16,620,317                            | 9,853            |
| 1923.....                            | 100                      | 8,324                         | 8,856,198   | 5,200                  | 15,935,678                     | 34,172,976        | 18,237,298                              | 9,376            |
| 1921.....                            | 89                       | 5,460                         | 5,577,906   | 19,216                 | 9,517,303                      | 21,716,839        | 12,199,536                              | ( <sup>3</sup> ) |
| 1919.....                            | 103                      | 6,686                         | 6,229,038   | 9,134                  | 11,700,158                     | 24,506,596        | 12,806,438                              | 6,071            |
| 1914.....                            | 92                       | 5,900                         | 3,180,705   | 26,000                 | 5,682,489                      | 11,751,623        | 6,069,134                               | 5,652            |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |             |                        |                                |                   |   |                  |
| 1923-1925.....                       | -14.0                    | -16.8                         | -10.5       | 9.3                    | -15.0                          | -11.7             | -8.9                                    | 5.1              |
| 1921-1923.....                       | ( <sup>4</sup> )         | 52.5                          | 58.8        | -72.9                  | 67.4                           | 57.4              | 49.5                                    | -----            |
| 1921-1925.....                       | ( <sup>4</sup> )         | 26.8                          | 42.0        | -70.4                  | 42.4                           | 38.9              | 36.2                                    | -----            |
| 1914-1925.....                       | ( <sup>4</sup> )         | 17.4                          | 149.1       | -78.1                  | 138.5                          | 156.8             | 173.8                                   | 74.3             |

<sup>1</sup> Including also cost of fuel, electric power, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Per cent not shown where base is less than 100.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1091]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |       |       |       |       |
|-------------------------|-------------------------------------|--|----------|-------|-------|-------|-------|
|                         |                                     | January  | February | March | April | May   | June  |
| United States:          |                                     |  |          |       |       |       |       |
| 1925 <sup>1</sup> ..... | 6,926                               | 6,400  | 6,650    | 6,914 | 6,866 | 6,618 | 6,527 |
| 1923 <sup>1</sup> ..... | 8,324                               | 7,682  | 7,989    | 8,345 | 8,059 | 8,216 | 8,359 |
| 1921 <sup>1</sup> ..... | 5,460                               | 5,542  | 4,511    | 5,231 | 5,872 | 5,802 | 5,469 |
| 1919 <sup>1</sup> ..... | 6,686                               | 5,999  | 6,213    | 6,486 | 6,522 | 6,684 | 6,878 |
| Illinois.....           | 128                                 | 125  | 130      | 135   | 136   | 136   | 133   |
| Indiana.....            | 482                                 | 367  | 439      | 470   | 499   | 489   | 457   |
| Massachusetts.....      | 1,221                               | 1,218  | 1,226    | 1,315 | 1,338 | 1,226 | 1,053 |
| Michigan.....           | 717                                 | 702  | 817      | 816   | 775   | 683   | 626   |
| New York.....           | 347                                 | 332  | 345      | 368   | 367   | 322   | 319   |
| Ohio.....               | 2,025                               | 1,657  | 1,758    | 1,816 | 1,816 | 1,877 | 1,988 |
| Pennsylvania.....       | 767                                 | 735  | 720      | 691   | 680   | 718   | 850   |
| Wisconsin.....          | 439                                 | 452  | 438      | 441   | 417   | 377   | 368   |

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |          |          |
|-------------------------|--|--------|-----------|---------|----------|----------|
|                         | July   | August | September | October | November | December |
| United States           |  |        |           |         |          |          |
| 1925 <sup>1</sup> ..... | 6,439  | 6,580  | 7,274     | 7,918   | 7,865    | 7,066    |
| 1923 <sup>1</sup> ..... | 8,278  | 8,775  | 8,912     | 9,057   | 8,564    | 7,847    |
| 1921 <sup>1</sup> ..... | 5,252  | 5,321  | 5,859     | 6,399   | 6,343    | 5,915    |
| 1919 <sup>1</sup> ..... | 6,644  | 6,848  | 6,838     | 6,946   | 6,995    | 7,179    |
| Illinois.....           | 133  | 124    | 118       | 125     | 118      | 112      |
| Indiana.....            | 481  | 461    | 514       | 571     | 565      | 477      |
| Massachusetts.....      | 1,030  | 1,065  | 1,180     | 1,317   | 1,354    | 1,320    |
| Michigan.....           | 631  | 655    | 673       | 729     | 728      | 767      |
| New York.....           | 341  | 336    | 346       | 383     | 377      | 327      |
| Ohio.....               | 1,894  | 2,085  | 2,323     | 2,475   | 2,445    | 2,168    |
| Pennsylvania.....       | 841  | 718    | 819       | 913     | 891      | 629      |
| Wisconsin.....          | 382  | 412    | 409       | 516     | 518      | 485      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 80.8; 1923, 84.4; 1921, 55.4; 1919, 83.6.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                             | 1923             |   | 1919             |  |
|---|---------|-----------------------------|------------------|---|------------------|--|
|   | Num-ber | Horse-power                 | Num-ber          | Horse-power                                     | Num-ber          | Horse-power                                  |
| Prime movers, total.....                                    | 1, 129  | 9, 853                      | 877              | 9, 376  | 466              | 6, 071                                       |
| Steam engines.....  | 21      | 2, 263                      | 25               | 2, 819  | 20               | 2, 371                                       |
| Steam turbines.....   | 1       | 666                         |                  |   | 1                | 50   |
| Internal-combustion engines.....                            | 6       | 279                         | 6                | 116   | 7                | 119  |
| Water wheels and turbines.....                              | 6       | 390                         | 7                | 413   | 9                | 1, 405                                       |
| Electric motors driven by purchased current.....            | 1, 065  | 6, 255                      | 839              | 6, 028  | 429              | 3, 126                                       |
| Electric motors, total.....                                 | 1, 372  | 7, 793                      | 1, 063           | 7, 094  | 458              | 3, 300                                       |
| Driven by purchased current.....                            | 1, 095  | 6, 255                      | 839              | 6, 028  | 429              | 3, 126                                       |
| Driven by current generated in establishment reporting..... | 277     | 1, 538<br><i>Kilo-watts</i> | 224              | 1, 066<br><i>Kilo-watts</i><br>( <sup>2</sup> ) | 29               | 174<br><i>Kilo-watts</i><br>( <sup>2</sup> ) |
| Electric generators.....                                    | 17      | 1, 675                      | ( <sup>2</sup> ) | ( <sup>2</sup> )                                | ( <sup>2</sup> ) | ( <sup>2</sup> )                             |

<sup>1</sup> Includes data for a small number of water motors.<sup>2</sup> Not called for on schedule.TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1925 <sup>1</sup>

[No comparable data for earlier years. See "Comparability of statistics for earlier years," p. 1088]

|  | Number      | Value                    |
|--|-------------|--------------------------|
| Total.....   |             | \$33, 246, 959           |
| Children's carriages and sleds industry, all products.....   |             | 30, 173, 501             |
| Children's carriages and other wheel goods, and sleds, including parts.....                        |             | 26, 030, 330             |
| All other products and receipts for repair work.....   |             | 4, 143, 171              |
| Children's carriages and other wheel goods, and sleds, secondary products of other industries..... |             | 3, 073, 458              |
| Children's carriages and other wheel goods, and sleds, including parts, all industries.....        |             | 29, 103, 788             |
| Baby carriages.....  | 287, 914    | <sup>2</sup> 6, 081, 641 |
| Gocarts, strollers, and sulkies.....   | 359, 396    | 3, 053, 325              |
| Doll carriages and doll carts.....   | 1, 209, 571 | 2, 815, 233              |
| Velocipedes and tricycles.....   | 566, 507    | 2, 762, 087              |
| Children's automobiles.....  | 216, 400    | 1, 765, 797              |
| Children's wagons (coaster, express, and play).....  | 1, 228, 740 | <sup>3</sup> 4, 054, 169 |
| Scooters.....  | 1, 281, 063 | 3, 445, 918              |
| Three-wheel play cars (with or without pedals).....  | 660, 698    | 1, 277, 417              |
| Sleds.....   | 878, 523    | 918, 878                 |
| Baby walkers and tenders.....  | 237, 157    | 743, 719                 |
| Parts, for sale as such.....   |             | 1, 061, 791              |
| Sleds, doll carriages, baby walkers, and children's wheel goods <sup>4</sup> .....                 |             | 1, 123, 813              |

<sup>1</sup> No corresponding statistics were compiled at preceding censuses.<sup>2</sup> Including baby carriages valued at \$990,949 (number not reported), and baby carriages and gocarts valued at \$84,571 (number and separate values not reported), reported as secondary products of other industries.<sup>3</sup> Including children's wagons valued at \$519,581, reported as secondary products of other industries (number not reported).<sup>4</sup> The values of these products which were reported as secondary products of other industries have been combined in order to avoid disclosing operations of individual establishments.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. One of the "All other States," however, reported larger values of products than one of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 86                       | 7,731                           | 25                           | 780                             | 6,926                         | 9,853       |
| Illinois.....                       | 6                        | 162                             | -----                        | 34                              | 128                           | 206         |
| Indiana.....                        | 7                        | 541                             | -----                        | 59                              | 482                           | 613         |
| Massachusetts.....                  | 9                        | 1,333                           | -----                        | 112                             | 1,221                         | 1,013       |
| Michigan.....                       | 8                        | 825                             | -----                        | 108                             | 717                           | 1,444       |
| New York.....                       | 18                       | 418                             | 11                           | 60                              | 347                           | 1,392       |
| Ohio.....                           | 10                       | 2,217                           | -----                        | 192                             | 2,025                         | 2,266       |
| Pennsylvania.....                   | 9                        | 879                             | 3                            | 109                             | 767                           | 849         |
| Wisconsin.....                      | 6                        | 473                             | 4                            | 30                              | 439                           | 852         |
| All other States <sup>1</sup> ..... | 13                       | 883                             | 7                            | 76                              | 800                           | 1,219       |

  

| STATE                               | Salaries    | Wages       | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-------------|-------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$1,735,637 | \$7,923,304 | \$5,684                | \$13,553,184      | \$30,173,501      | \$16,620,317                            |
| Illinois.....                       | 65,100      | 158,431     | -----                  | 504,423           | 806,140           | 301,717                                 |
| Indiana.....                        | 129,501     | 535,564     | -----                  | 782,487           | 1,891,498         | 1,109,011                               |
| Massachusetts.....                  | 299,130     | 1,409,890   | -----                  | 2,390,517         | 5,384,226         | 2,993,709                               |
| Michigan.....                       | 187,619     | 758,006     | -----                  | 1,544,426         | 3,328,278         | 1,783,852                               |
| New York.....                       | 117,015     | 500,423     | -----                  | 1,097,267         | 2,108,571         | 1,011,304                               |
| Ohio.....                           | 420,607     | 2,631,811   | -----                  | 3,898,492         | 9,566,794         | 5,668,302                               |
| Pennsylvania.....                   | 234,566     | 800,045     | 5,408                  | 1,498,217         | 3,137,175         | 1,638,958                               |
| Wisconsin.....                      | 112,893     | 430,990     | -----                  | 713,427           | 1,447,338         | 733,911                                 |
| All other States <sup>1</sup> ..... | 169,206     | 698,144     | 276                    | 1,123,928         | 2,503,481         | 1,379,553                               |

<sup>1</sup> California, 1 establishment; Connecticut, 2; Iowa, 1; Maryland, 2; Minnesota, 2; New Jersey, 4; Vermont, 1.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> See Table 4, p. 1090.

# CARRIAGES, WAGONS, SLEIGHS, AND SLEDS, AND MATERIALS

[A preliminary report for these industries was issued under date of October 29, 1926]

The manufacture of carriages, wagons, sleighs, and sleds, and the manufacture of materials and parts for such vehicles are treated for census purposes as separate industries. A combined summary for these industries is presented in the table below.

**Duplication in cost of materials and value of products.**—The combined statistics for cost of materials and value of products include a considerable amount of duplication due to the fact that in large measure the products of the "Carriage, wagon, sleigh, and sled materials" industry are used as materials in the "Carriages, wagons, sleighs, and sleds" industry, so that the combined cost of materials exceeds the cost of raw and partly manufactured materials produced outside the industries, and the combined value of products is in excess of the total factory value of the finished products in the form in which they reach the final purchaser. (The census schedules call for the selling value, at the factory, of products manufactured during the year.)

## COMBINED SUMMARY FOR THE CARRIAGE AND WAGON INDUSTRIES, FOR THE UNITED STATES: 1914 TO 1925

[This table presents a combined summary for the "Carriages, wagons, sleighs, and sleds" industry and the "Carriage, wagon, sleigh, and sled materials" industry. For separate summary statistics for the two industries, see Table 1, p. 1094, and Table 1, p. 1100. Data for establishments with products under \$5,000 in value are included for 1919 and 1914 but not for subsequent years]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power          |
|--------------------------------------|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|----------------------|
| 1925 <sup>3</sup> .....              | 233                      | 6,222                         | \$7,007,523 | \$49,884               | \$15,518,424                   | \$30,052,430      | \$14,534,006                            | 29,138               |
| 1923 <sup>3</sup> .....              | 505                      | 10,092                        | 10,909,362  | 43,238                 | 22,686,669                     | 44,685,973        | 21,999,304                              | 37,156               |
| 1921 <sup>3</sup> .....              | 978                      | 10,772                        | 12,458,563  | 132,961                | 23,018,566                     | 43,900,549        | 20,881,983                              | ( <sup>4</sup> )     |
| 1919 <sup>3</sup> .....              | 2,555                    | 24,973                        | 25,331,608  | 182,039                | 64,068,225                     | 119,908,079       | 55,839,854                              | <sup>5</sup> 64,753  |
| 1914 <sup>3</sup> .....              | 5,078                    | 52,714                        | 32,756,505  | 209,438                | 66,148,275                     | 132,488,869       | 66,340,594                              | <sup>5</sup> 113,634 |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |             |                        |                                |                   |   |                      |
| 1923-1925.....                       | -53.9                    | -38.3                         | -35.8       | 15.4                   | -31.6                          | -32.7             | -33.9                                   | -21.6                |
| 1921-1923.....                       | -48.4                    | -6.3                          | -12.4       | -67.5                  | -1.4                           | 1.8               | 5.4                                     | -----                |
| 1921-1925.....                       | -76.2                    | -42.2                         | -43.8       | -62.5                  | -32.6                          | -31.5             | -30.4                                   | -----                |
| 1914-1925.....                       | -95.4                    | -88.2                         | -78.6       | -76.2                  | -76.5                          | -77.3             | -78.1                                   | -74.4                |

<sup>1</sup> Including also cost of fuel, electric power, factory supplies, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Data for establishments engaged solely in repair work are included for 1921, 1919, and 1914, but not for 1925 and 1923. (See "Exclusion of repair shops," p. 1093.) The difference between the figures given here for 1923, 1921, 1919, and 1914, and those published in previous reports, is due to the inclusion here and the exclusion from the previous reports of data for the manufacture of wheelbarrows.

<sup>4</sup> Not called for on schedule.

<sup>5</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1096 and p. 1101.)

TABLE 5.—VEHICLES, BY CLASS, BY STATES: 1919 TO 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Two of the States shown in combination, however, reported larger production than some of those shown separately]

| CLASS AND STATE                                  | NUMBER            |         |        |           | VALUE             |
|--|-------------------|---------|--------|-----------|-------------------|
|  | 1925 <sup>1</sup> | 1923    | 1921   | 1919      | 1925 <sup>1</sup> |
| <b>WAGONS (BUSINESS, FARM, GOVERNMENT, ETC.)</b> |                   |         |        |           |                   |
| United States.....                               | 2 156,570         | 193,490 | 67,023 | 2 345,244 | 2 \$13,771,096    |
| Alabama and Mississippi.....                     | 4,143             | 6,432   | 956    | 9,084     | 577,730           |
| Illinois.....                                    | 57,271            | 53,961  | 22,533 | 93,499    | 4,660,648         |
| Indiana.....                                     | 16,708            | 18,943  | 5,185  | 21,733    | 1,038,122         |
| Kentucky.....                                    | 9,772             | 16,659  | 1,568  | 27,044    | 858,280           |
| Minnesota.....                                   | 6,293             | 10,617  | 4,281  | 12,087    | 288,806           |
| Missouri.....                                    | 12,508            | 10,806  | 1,851  | 17,293    | 1,341,389         |
| New York.....                                    | 2,871             | 4,323   | 3,251  | 5,097     | 710,983           |
| North Carolina.....                              | 6,179             | 16,789  | 7,772  | 32,272    | 359,726           |
| Pennsylvania.....                                | 1,931             | 5,594   | 4,344  | 7,126     | 408,518           |
| Tennessee.....                                   | 4,639             | 7,662   | 1,887  | 13,093    | 440,635           |
| Virginia.....                                    | 13,342            | 12,211  | 2,367  | 20,022    | 1,100,130         |
| Wisconsin.....                                   | 15,182            | 16,274  | 4,048  | 49,267    | 1,230,796         |
| All other States.....                            | 5,731             | 13,219  | 6,980  | 37,627    | 755,335           |
| <b>CARRIAGES AND BUGGIES</b>                     |                   |         |        |           |                   |
| United States.....                               | 14,789            | 39,809  | 34,413 | 215,809   | 1,244,620         |
| Georgia.....                                     | 4,176             | 4,589   | 719    | 14,445    | 335,949           |
| Indiana.....                                     | 1,889             | 4,175   | 13,077 | 71,510    | 162,723           |
| Kentucky.....                                    | 3,476             | 13,766  | 5,947  | 38,504    | 319,295           |
| North Carolina.....                              | 1,310             | 4,408   | 5,089  | 24,556    | 109,201           |
| All other States.....                            | 3,938             | 12,871  | 9,581  | 66,794    | 317,452           |
| <b>PUBLIC CONVEYANCES</b>                        |                   |         |        |           |                   |
| United States.....                               | 87                | 237     | 161    | 194       | 28,803            |
| <b>SLEIGHS AND SLEDS</b>                         |                   |         |        |           |                   |
| United States.....                               | 1,868             | 2,555   | 5,682  | 35,993    | 62,564            |

<sup>1</sup> Statistics for Government wagons are omitted for 1925 in order to avoid disclosing operations of individual establishments.

<sup>2</sup> Not including, for 1925, data for 10,627 handcarts and pushcarts valued at \$99,197 and 1,907 two-wheeled horse-drawn carts valued at \$112,085; and, for 1919, data for 11,593 pushcarts and hand trucks.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power         |
|--------------------------------------|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|---------------------|
| 1925 <sup>3</sup> -----              | 152                      | 4,833                         | \$5,791,729 | \$32,787               | \$12,859,793                   | \$24,934,814      | \$12,075,021                            | 20,449              |
| 1923 <sup>3</sup> -----              | 396                      | 8,109                         | 9,318,763   | 41,514                 | 18,682,274                     | 37,372,825        | 18,690,551                              | 26,509              |
| 1921 <sup>3</sup> -----              | 837                      | 8,025                         | 9,903,327   | 113,774                | 16,883,611                     | 33,113,372        | 16,229,761                              | ( <sup>4</sup> )    |
| 1919 <sup>3</sup> -----              | 2,297                    | 18,464                        | 19,664,837  | 164,591                | 49,333,552                     | 93,142,763        | 43,809,211                              | <sup>5</sup> 41,081 |
| 1914 <sup>3</sup> -----              | 4,622                    | 41,627                        | 26,697,287  | 185,131                | 52,602,002                     | 107,639,309       | 55,037,307                              | <sup>5</sup> 75,439 |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |             |                        |                                |                   |   |                     |
| 1923-1925-----                       | -61.6                    | -40.4                         | -37.8       | -21.0                  | -31.2                          | -33.3             | -35.4                                   | -22.9               |
| 1921-1923-----                       | -52.7                    | 1.0                           | -5.9        | -63.5                  | 10.7                           | 12.9              | 15.2                                    | -----               |
| 1921-1925-----                       | -81.8                    | -39.8                         | -41.5       | -71.2                  | -23.8                          | -24.7             | -25.6                                   | -----               |
| 1914-1925-----                       | -96.7                    | -88.4                         | -78.3       | -82.3                  | -75.6                          | -76.8             | -78.1                                   | -72.9               |

<sup>1</sup> Including also cost of fuel, electric power, and factory supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Data for establishments engaged solely in repair work are included for 1921, 1919, and 1914, but not for 1925 and 1923. (See "Exclusion of repair shops," p. 1093.) The difference between the figures for 1923, 1921, 1919, and 1914, and those published in previous reports is due to the inclusion here and the exclusion from the previous reports of data for the manufacture of wheelbarrows.

<sup>4</sup> Not called for on schedule.

<sup>5</sup> These figures differ from those published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1096.)



TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 6, p. 1099]

| STATE          | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |        |               |        |        |
|----------------|-------------------------------------|--|----------|--------|---------------|--------|--------|
|                |                                     | January  | February | March  | April         | May    | June   |
| United States: |                                     |  |          |        |               |        |        |
| 1925           | 4,833                               | <i>4,880</i>   | 4,618    | 4,718  | 4,782         | 4,637  | 4,642  |
| 1923           | 8,109                               | 7,811  | 8,061    | 8,365  | 8,725         | 8,788  | 8,582  |
| 1921           | 8,025                               | 8,718  | 8,581    | 8,191  | 8,169         | 8,254  | 8,007  |
| 1919           | 18,464                              | 18,147   | 18,235   | 18,217 | <i>17,912</i> | 18,007 | 17,984 |
| Arkansas       | 20                                  | 19   | 19       | 21     | 21            | 21     | 22     |
| California     | 10                                  | 10   | 10       | 10     | 10            | 9      | 9      |
| Georgia        | 131                                 | 82   | 106      | 110    | 72            | 71     | 64     |
| Illinois       | 914                                 | 848  | 877      | 926    | 949           | 856    | 859    |
| Indiana        | 399                                 | 366  | 369      | 385    | 395           | 408    | 416    |
| Iowa           | 54                                  | 50   | 51       | 53     | 54            | 55     | 56     |
| Kentucky       | 439                                 | 383  | 389      | 397    | 408           | 403    | 407    |
| Massachusetts  | 107                                 | 92   | 97       | 110    | 120           | 116    | 103    |
| Minnesota      | 193                                 | 164  | 180      | 211    | 208           | 204    | 221    |
| Missouri       | 334                                 | 260  | 281      | 284    | 297           | 307    | 315    |
| New York       | 374                                 | 369  | 377      | 399    | 412           | 426    | 402    |
| North Carolina | 226                                 | 223  | 225      | 224    | 205           | 221    | 211    |
| Ohio           | 202                                 | 189  | 201      | 207    | 209           | 206    | 207    |
| Pennsylvania   | 263                                 | 269  | 276      | 278    | 278           | 290    | 282    |
| Tennessee      | 205                                 | 148  | 218      | 156    | 183           | 137    | 149    |
| Virginia       | 264                                 | 218  | 242      | 249    | 244           | 204    | 198    |
| Wisconsin      | 393                                 | 387  | 399      | 407    | 414           | 404    | 418    |

| STATE          | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |              |         |          |              |
|----------------|--|--------|--------------|---------|----------|--------------|
|                | July   | August | September    | October | November | December     |
| United States: |  |        |              |         |          |              |
| 1925           | 4,763  | 5,159  | 5,281        | 5,219   | 5,053    | 4,765        |
| 1923           | 8,433  | 8,326  | 8,000        | 7,557   | 7,419    | <i>7,240</i> |
| 1921           | 7,631  | 7,476  | <i>7,353</i> | 7,964   | 8,111    | 7,839        |
| 1919           | 18,425   | 18,733 | 18,872       | 19,019  | 18,045   | 18,972       |
| Arkansas       | 20   | 19     | 20           | 21      | 20       | 20           |
| California     | 9  | 9      | 11           | 11      | 12       | 12           |
| Georgia        | 74   | 166    | 200          | 209     | 224      | 197          |
| Illinois       | 883  | 961    | 1,002        | 962     | 932      | 916          |
| Indiana        | 434  | 426    | 418          | 406     | 390      | 370          |
| Iowa           | 56   | 58     | 54           | 52      | 52       | 51           |
| Kentucky       | 463  | 483    | 492          | 497     | 499      | 445          |
| Massachusetts  | 107  | 106    | 113          | 109     | 111      | 102          |
| Minnesota      | 193  | 200    | 182          | 179     | 174      | 200          |
| Missouri       | 337  | 396    | 424          | 426     | 365      | 315          |
| New York       | 354  | 352    | 352          | 348     | 347      | 356          |
| North Carolina | 219  | 232    | 244          | 247     | 235      | 228          |
| Ohio           | 206  | 208    | 210          | 188     | 199      | 193          |
| Pennsylvania   | 256  | 250    | 244          | 242     | 242      | 245          |
| Tennessee      | 218  | 255    | 268          | 269     | 257      | 202          |
| Virginia       | 212  | 295    | 331          | 358     | 350      | 269          |
| Wisconsin      | 418  | 426    | 382          | 383     | 342      | 334          |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 83.3; 1923, 82.4; 1921, 84.3; 1919, 94.1.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE   | 1925        |                 | 1923        |                 | 1919        |                 |
|--|-------------|-----------------|-------------|-----------------|-------------|-----------------|
|  | Num-<br>ber | Horse-<br>power | Num-<br>ber | Horse-<br>power | Num-<br>ber | Horse-<br>power |
| Prime movers, total.....   | 1,165       | 20,449          | 1,931       | 26,509          | 4,537       | 141,081         |
| Steam engines.....   | 73          | 12,784          | 92          | 14,728          | 180         | 18,409          |
| Steam turbines.....  |             |                 |             |                 |             |                 |
| Internal-combustion engines.....                                 | 11          | 234             | 39          | 707             | 537         | 4,294           |
| Water turbines.....  | 3           | 172             | 5           | 189             | 127         | 1896            |
| Electric motors driven by purchased current.....                 | 1,078       | 7,259           | 1,795       | 10,885          | 3,788       | 15,313          |
| Electric motors, total.....                                      | 1,756       | 14,680          | 2,631       | 19,239          | 4,598       | 25,316          |
| Driven by purchased current.....                                 | 1,078       | 7,259           | 1,795       | 10,885          | 3,788       | 15,313          |
| Driven by current generated in establish-<br>ment reporting..... | 678         | 7,421           | 836         | 8,354           | 810         | 10,003          |
|  |             | Kilo-<br>watts  |             | Kilo-<br>watts  |             | Kilo-<br>watts  |
| Electric generators.....   | 38          | 5,724           | (3)         | (3)             | (3)         | (3)             |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Includes data for a small number of water motors.

<sup>3</sup> Not called for on schedule.

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE: 1919 TO 1925

[See "Detailed statistics of products," p. 1093]

| CLASS  | 1925 <sup>1</sup> | 1923 <sup>1</sup> | 1921 <sup>1</sup> | 1919 <sup>1</sup> |
|--|-------------------|-------------------|-------------------|-------------------|
| <i>Aggregate</i>   | NUMBER            |                   |                   |                   |
| Establishments reporting.....  | 226               | 490               | 902               | 2,392             |
| Complete vehicles.....   | 234,831           | 286,292           | 120,492           | 708,107           |
| Wagons <sup>2</sup> .....  | 211,418           | 223,972           | 79,794            | 426,502           |
| Carriages and buggies.....   | 20,646            | 57,669            | 34,588            | 244,866           |
| Public conveyances.....  | 87                | 263               | 161               | 277               |
| Sleighs and sleds (including bobsleds).....                            | 2,680             | 4,388             | 5,949             | 36,462            |
| <i>Made by establishments in the industry</i>                          |                   |                   |                   |                   |
| Establishments reporting.....  | 152               | 396               | 837               | 2,297             |
| Complete vehicles.....   | 185,848           | 236,091           | 107,279           | 608,833           |
| Wagons <sup>3</sup> .....  | 169,104           | 193,490           | 67,023            | 356,837           |
| Business.....  | 15,719            | 23,814            | 14,173            | 39,425            |
| Farm wagons, carts, and trucks <sup>4</sup> .....                      | 153,385           | 169,377           | 52,618            | 314,824           |
| Mail and mail carriers' wagons, patrol<br>wagons, ambulances, etc..... | (4)               | 299               | 232               | 2,588             |
| Carriages and buggies.....   | 14,789            | 39,809            | 34,413            | 215,809           |
| Public conveyances.....  | 87                | 237               | 161               | 194               |
| Sleighs and sleds (including bobsleds).....                            | 1,868             | 2,555             | 5,682             | 35,993            |
| <i>Made by establishments in other industries</i>                      |                   |                   |                   |                   |
| Establishments reporting.....  | 74                | 94                | 65                | 95                |
| Complete vehicles.....   | 48,983            | 50,201            | 13,213            | 99,274            |
| Wagons <sup>5</sup> .....  | 42,314            | 30,482            | 12,771            | 69,665            |
| Carriages and buggies.....   | 5,857             | 17,860            | 175               | 29,057            |
| Public conveyances.....  |                   | 26                |                   | 83                |
| Sleighs and sleds (including bobsleds).....                            | 812               | 1,833             | 267               | 469               |

See footnotes at end of table

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE: 1919 TO 1925—Con.

[See "Detailed statistics of products," p. 1093]

| CLASS   | 1925 <sup>1</sup>       | 1923 <sup>1</sup>       | 1921 <sup>1</sup>      | 1919 <sup>1</sup>       |
|---|-------------------------|-------------------------|------------------------|-------------------------|
| <i>Aggregate</i>  | VALUE                   |                         |                        |                         |
| Products, total value.....  | \$28,019,006            | \$40,836,941            | \$34,508,818           | \$103,437,085           |
| Complete vehicles.....  | 18,402,557              | 26,035,902              | 13,606,401             | 66,468,654              |
| Wagons.....   | <sup>2</sup> 16,400,406 | <sup>2</sup> 21,130,217 | <sup>2</sup> 9,625,113 | <sup>2</sup> 42,412,833 |
| Carriages and buggies.....  | 1,884,156               | 4,610,840               | 3,684,443              | 22,682,171              |
| Public conveyances.....   | 28,803                  | 142,072                 | 49,178                 | 105,452                 |
| Sleighs and sleds (including bobsleds).....   | 89,192                  | 152,773                 | 247,667                | 1,268,198               |
| All other products, parts, etc., value, and receipts for repairs <sup>3</sup> ..... | 9,616,449               | 14,801,039              | 20,902,417             | 36,968,431              |
| <i>Made by establishments in the industry</i>                                       |                         |                         |                        |                         |
| Products, total value.....  | 24,934,814              | 37,372,825              | 33,113,372             | 93,142,763              |
| Complete vehicles.....  | 15,318,365              | 22,571,786              | 12,210,955             | 56,174,332              |
| Wagons.....   | <sup>4</sup> 13,982,378 | <sup>4</sup> 18,970,318 | <sup>4</sup> 8,279,038 | <sup>4</sup> 35,183,807 |
| Business.....   | 2,435,539               | 4,366,955               | 3,438,259              | 6,624,134               |
| Farm wagons, carts, and trucks.....   | <sup>5</sup> 11,546,839 | <sup>5</sup> 14,559,576 | <sup>5</sup> 4,750,933 | <sup>5</sup> 27,803,399 |
| Mail and mail carriers' wagons, patrol wagons, ambulances, etc.....                 | ( <sup>6</sup> )        | 43,757                  | 89,846                 | 696,274                 |
| Carriages and buggies.....  | 1,244,620               | 3,367,473               | 3,655,479              | 19,676,446              |
| Public conveyances.....   | 28,803                  | 133,647                 | 49,178                 | 76,957                  |
| Sleighs and sleds (including bobsleds).....   | 62,564                  | 100,348                 | 227,260                | 1,237,122               |
| All other products, parts, etc., value, and receipts for repairs <sup>3</sup> ..... | 9,616,449               | 14,801,039              | 20,902,417             | 36,968,431              |
| <i>Made by establishments in other industries</i>                                   |                         |                         |                        |                         |
| Products, total value <sup>10</sup> .....   | 3,084,192               | 3,464,116               | 1,395,446              | 10,294,322              |
| Complete vehicles.....  | 3,084,192               | 3,464,116               | 1,395,446              | 10,294,322              |
| Wagons <sup>4</sup> .....   | 2,418,028               | 2,159,899               | 1,346,075              | 7,229,026               |
| Carriages and buggies.....  | 639,536                 | 1,243,367               | 28,964                 | 3,005,725               |
| Public conveyances.....   |                         | 8,425                   |                        | 28,495                  |
| Sleighs and sleds (including bobsleds).....   | 20,628                  | 52,425                  | 20,407                 | 31,076                  |

<sup>1</sup> See headnote and footnote 3, Table 1.<sup>2</sup> Includes, for 1925, 12,651 handcars and pushcarts valued at \$121,036 and 3,204 two-wheeled horse-drawn carts valued at \$105,368; for 1919, 12,966 pushcarts and hand trucks valued at \$385,657. Number not reported for 1923 or 1921.<sup>3</sup> Includes for 1925, 10,627 handcars and pushcarts valued at \$99,197 and 1,907 two-wheeled horse-drawn carts valued at \$112,085; for 1919, 11,593 pushcarts and hand trucks valued at \$295,561. Number not reported for 1923 or 1921.<sup>4</sup> Omitted to avoid disclosing operations of individual establishments.<sup>5</sup> Includes, for 1925, 2,024 pushcarts and hand trucks valued at \$21,839 and 1,297 two-wheeled horse-drawn carts valued at \$53,283; for 1923, pushcarts valued at \$23,118 (number not reported); for 1919, 1,373 pushcarts valued at \$90,096. None reported for 1921.<sup>6</sup> Includes value of handcars and pushcarts, \$101,496 (number not reported).<sup>7</sup> Includes value of pushcarts and hand trucks, \$35,749 (number not reported).<sup>8</sup> Includes wheelbarrows as follows: For 1925, 358,823, valued at \$1,818,494; for 1923, 390,080, valued at \$2,095,874; for 1921, \$1,454,581; for 1919, \$1,679,538. Number not reported for 1921 or 1919.<sup>9</sup> Includes value of handcars and pushcarts, \$78,378 (number not reported).<sup>10</sup> Not including wheelbarrows manufactured as secondary products by establishments engaged primarily in other industries, valued as follows: 1925, \$1,564,227; 1923, \$403,352; 1921, \$131,812; 1919, \$1,912,128.

TABLE 5.—VEHICLES, BY CLASS, BY STATES: 1919 TO 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Two of the States shown in combination, however, reported larger production than some of those shown separately]

| CLASS AND STATE                                  | NUMBER            |         |        |           | VALUE             |
|--|-------------------|---------|--------|-----------|-------------------|
|  | 1925 <sup>1</sup> | 1923    | 1921   | 1919      | 1925 <sup>1</sup> |
| <b>WAGONS (BUSINESS, FARM, GOVERNMENT, ETC.)</b> |                   |         |        |           |                   |
| United States.....                               | 2 156,570         | 193,490 | 67,023 | 2 345,244 | 2 \$13,771,096    |
| Alabama and Mississippi.....                     | 4,143             | 6,432   | 956    | 9,084     | 577,730           |
| Illinois.....                                    | 57,271            | 53,961  | 22,533 | 93,499    | 4,660,648         |
| Indiana.....                                     | 16,708            | 18,943  | 5,185  | 21,733    | 1,038,122         |
| Kentucky.....                                    | 9,772             | 16,659  | 1,568  | 27,044    | 858,280           |
| Minnesota.....                                   | 6,293             | 10,617  | 4,281  | 12,087    | 288,806           |
| Missouri.....                                    | 12,508            | 10,806  | 1,851  | 17,293    | 1,341,389         |
| New York.....                                    | 2,871             | 4,323   | 3,251  | 5,097     | 710,983           |
| North Carolina.....                              | 6,179             | 16,789  | 7,772  | 32,272    | 359,726           |
| Pennsylvania.....                                | 1,931             | 5,594   | 4,344  | 7,126     | 408,518           |
| Tennessee.....                                   | 4,639             | 7,662   | 1,887  | 13,093    | 440,635           |
| Virginia.....                                    | 13,342            | 12,211  | 2,367  | 20,022    | 1,100,130         |
| Wisconsin.....                                   | 15,182            | 16,274  | 4,048  | 49,267    | 1,230,796         |
| All other States.....                            | 5,731             | 13,219  | 6,980  | 37,627    | 755,335           |
| <b>CARRIAGES AND BUGGIES</b>                     |                   |         |        |           |                   |
| United States.....                               | 14,789            | 39,809  | 34,413 | 215,809   | 1,244,620         |
| Georgia.....                                     | 4,176             | 4,589   | 719    | 14,445    | 335,949           |
| Indiana.....                                     | 1,889             | 4,175   | 13,077 | 71,510    | 162,723           |
| Kentucky.....                                    | 3,476             | 13,766  | 5,947  | 38,504    | 319,295           |
| North Carolina.....                              | 1,310             | 4,408   | 5,089  | 24,556    | 109,201           |
| All other States.....                            | 3,938             | 12,871  | 9,581  | 66,794    | 317,452           |
| <b>PUBLIC CONVEYANCES</b>                        |                   |         |        |           |                   |
| United States.....                               | 87                | 237     | 161    | 194       | 28,803            |
| <b>SLEIGHS AND SLEDS</b>                         |                   |         |        |           |                   |
| United States.....                               | 1,868             | 2,555   | 5,682  | 35,993    | 62,564            |

<sup>1</sup> Statistics for Government wagons are omitted for 1925 in order to avoid disclosing operations of individual establishments.

<sup>2</sup> Not including, for 1925, data for 10,627 handcarts and pushcarts valued at \$99,197 and 1,907 two-wheeled horse-drawn carts valued at \$112,085; and, for 1919, data for 11,593 pushcarts and hand trucks.

TABLE 6.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States .....                 | 152                      | 5,694                           | 65                           | 796                             | 4,833                         | 20,449      |
| Arkansas .....                      | 3                        | 23                              | 2                            | 1                               | 20                            | 79          |
| California .....                    | 3                        | 15                              | 3                            | 2                               | 10                            | 39          |
| Georgia .....                       | 7                        | 155                             | 2                            | 22                              | 131                           | 543         |
| Illinois .....                      | 13                       | 1,076                           | 1                            | 161                             | 914                           | 5,308       |
| Indiana .....                       | 14                       | 479                             | 2                            | 78                              | 399                           | 1,680       |
| Iowa .....                          | 5                        | 67                              | 5                            | 8                               | 54                            | 242         |
| Kentucky .....                      | 6                        | 536                             | —                            | 97                              | 439                           | 2,964       |
| Massachusetts .....                 | 4                        | 121                             | 3                            | 11                              | 107                           | 134         |
| Minnesota .....                     | 4                        | 213                             | —                            | 20                              | 193                           | 509         |
| Missouri .....                      | 11                       | 367                             | 3                            | 30                              | 334                           | 718         |
| New York .....                      | 15                       | 439                             | 7                            | 58                              | 374                           | 1,058       |
| North Carolina .....                | 9                        | 259                             | 8                            | 25                              | 226                           | 856         |
| Ohio .....                          | 9                        | 244                             | 3                            | 39                              | 202                           | 815         |
| Pennsylvania .....                  | 10                       | 314                             | 4                            | 47                              | 263                           | 1,065       |
| Tennessee .....                     | 6                        | 232                             | 3                            | 24                              | 205                           | 784         |
| Virginia .....                      | 8                        | 314                             | 2                            | 48                              | 264                           | 1,024       |
| Wisconsin .....                     | 9                        | 473                             | 3                            | 77                              | 393                           | 1,624       |
| All other States <sup>1</sup> ..... | 16                       | 367                             | 14                           | 48                              | 305                           | 1,037       |

| STATE                               | Salaries    | Wages       | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-------------|-------------|------------------------|-------------------|-------------------|---|
| United States .....                 | \$1,884,690 | \$5,791,729 | \$32,787               | \$12,859,793      | \$24,934,814      | \$12,075,021                            |
| Arkansas .....                      | 1,725       | 19,398      | —                      | 24,024            | 56,471            | 32,447                                  |
| California .....                    | 2,581       | 25,700      | 1,200                  | 63,223            | 106,613           | 43,390                                  |
| Georgia .....                       | 44,145      | 95,268      | —                      | 322,700           | 601,694           | 278,994                                 |
| Illinois .....                      | 336,428     | 1,305,481   | —                      | 3,409,755         | 5,718,967         | 2,309,212                               |
| Indiana .....                       | 152,376     | 414,635     | 8,410                  | 822,111           | 1,644,072         | 821,961                                 |
| Iowa .....                          | 12,629      | 57,541      | 125                    | 156,547           | 288,369           | 131,822                                 |
| Kentucky .....                      | 251,770     | 477,002     | —                      | 904,124           | 1,725,994         | 821,870                                 |
| Massachusetts .....                 | 30,955      | 166,013     | 8,250                  | 236,982           | 522,733           | 285,751                                 |
| Minnesota .....                     | 34,146      | 215,965     | —                      | 450,192           | 833,421           | 383,229                                 |
| Missouri .....                      | 81,248      | 387,154     | 6,867                  | 726,001           | 1,569,332         | 843,331                                 |
| New York .....                      | 181,883     | 577,567     | 3,149                  | 1,099,089         | 2,388,409         | 1,289,320                               |
| North Carolina .....                | 40,822      | 178,698     | —                      | 294,438           | 586,498           | 292,060                                 |
| Ohio .....                          | 85,815      | 270,061     | 1,138                  | 638,912           | 1,134,828         | 495,916                                 |
| Pennsylvania .....                  | 116,576     | 342,172     | 300                    | 601,712           | 1,317,196         | 715,484                                 |
| Tennessee .....                     | 47,138      | 185,264     | —                      | 397,821           | 825,391           | 427,570                                 |
| Virginia .....                      | 127,318     | 226,672     | 1,294                  | 542,618           | 1,213,724         | 671,106                                 |
| Wisconsin .....                     | 215,487     | 486,068     | —                      | 1,242,913         | 2,458,737         | 1,215,824                               |
| All other States <sup>1</sup> ..... | 121,648     | 362,975     | 2,054                  | 926,631           | 1,942,365         | 1,015,734                               |

<sup>1</sup> Alabama, 3 establishments; Florida, 1; Louisiana, 2; Maryland, 2; Michigan, 1; Mississippi, 3; New Jersey, 3; Texas, 1.

<sup>2</sup> Value of products less cost of material (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> See Table 4, p. 1097.

# CARRIAGE, WAGON, SLEIGH, AND SLED MATERIALS

**Description of the industry.**—This industry classification covers those establishments whose principal products are materials and parts, except springs (the manufacture of which is separately classified), for carriages, wagons, sleighs, and sleds. These products, which are sold in part for use in the manufacture of new vehicles and in part for replacement purposes, include, among others, bodies, tops, cushions, hubs, felloes, spokes, wheels, whiffletrees, carriage boots and aprons, axles, dashboards, neck yokes, and whip sockets.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power         |
|--------------------------------------|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|---------------------|
| 1925.....                            | 81                       | 1,389                         | \$1,215,794 | \$17,097               | \$2,658,631                    | \$5,117,616       | \$2,458,985                             | 8,680               |
| 1923.....                            | 109                      | 1,983                         | 1,590,599   | 1,724                  | 4,004,395                      | 7,313,148         | 3,308,753                               | 10,647              |
| 1921.....                            | 141                      | 2,747                         | 2,555,236   | 19,187                 | 6,184,955                      | 10,787,177        | 4,652,222                               | (9)                 |
| 1919.....                            | 258                      | 6,509                         | 5,666,771   | 17,448                 | 14,734,673                     | 26,765,316        | 12,030,643                              | <sup>3</sup> 23,672 |
| 1914.....                            | 456                      | 11,087                        | 6,059,218   | 24,307                 | 13,546,273                     | 24,849,560        | 11,303,287                              | <sup>4</sup> 38,195 |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |             |                        |                                |                   |   |                     |
| 1923-1925.....                       | -25.7                    | -30.0                         | -23.6       | 891.7                  | -33.6                          | -30.0             | -25.7                                   | -18.4               |
| 1921-1923.....                       | -22.7                    | -27.8                         | -37.8       | -91.0                  | -34.7                          | -32.2             | -28.9                                   | -----               |
| 1921-1925.....                       | -42.6                    | -49.4                         | -52.4       | -10.9                  | -56.7                          | -52.6             | -47.1                                   | -----               |
| 1914-1925.....                       | -82.2                    | -87.5                         | -79.9       | -29.7                  | -80.4                          | -79.4             | -78.2                                   | -77.3               |

<sup>1</sup> Including also cost of fuel, electric power, shop supplies, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ from those published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3.)

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 4, p. 1102]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |       |       |       |       |
|-------------------------|-------------------------------------|--|----------|-------|-------|-------|-------|
|                         |                                     | January  | February | March | April | May   | June  |
| United States:          |                                     |  |          |       |       |       |       |
| 1925 <sup>1</sup> ..... | 1,389                               | 1,409  | 1,476    | 1,509 | 1,509 | 1,445 | 1,361 |
| 1923 <sup>1</sup> ..... | 1,983                               | 2,004  | 2,070    | 2,100 | 2,158 | 2,122 | 2,103 |
| 1921 <sup>1</sup> ..... | 2,747                               | 2,345  | 2,323    | 2,708 | 2,622 | 2,887 | 2,849 |
| 1919 <sup>1</sup> ..... | 6,509                               | 5,918  | 5,991    | 5,856 | 6,046 | 6,208 | 6,397 |
| Arkansas.....           | 146                                 | 146  | 175      | 170   | 177   | 146   | 133   |
| Indiana.....            | 78                                  | 108  | 104      | 104   | 99    | 99    | 58    |
| Kentucky.....           | 154                                 | 153  | 161      | 160   | 160   | 153   | 131   |
| Massachusetts.....      | 42                                  | 41   | 44       | 45    | 44    | 46    | 42    |
| New York.....           | 57                                  | 51   | 55       | 66    | 69    | 63    | 53    |
| Ohio.....               | 70                                  | 60   | 61       | 67    | 70    | 72    | 72    |
| Pennsylvania.....       | 166                                 | 169  | 176      | 182   | 174   | 172   | 177   |
| Tennessee.....          | 262                                 | 280  | 298      | 288   | 300   | 280   | 279   |

See footnote at end of table

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |              |              |
|-------------------------|--|--------|-----------|---------|--------------|--------------|
|                         | July   | August | September | October | November     | December     |
| United States:          |  |        |           |         |              |              |
| 1925 <sup>1</sup> ..... | 1,366  | 1,345  | 1,298     | 1,328   | <i>1,296</i> | 1,325        |
| 1923 <sup>1</sup> ..... | 2,026  | 1,967  | 1,894     | 1,792   | 1,791        | <i>1,772</i> |
| 1921 <sup>1</sup> ..... | 2,757  | 2,892  | 2,851     | 2,815   | 2,861        | 2,753        |
| 1919 <sup>1</sup> ..... | 6,646  | 6,902  | 6,964     | 7,095   | 7,056        | 7,029        |
| Arkansas.....           | 140  | 136    | 131       | 133     | 129          | 133          |
| Indiana.....            | 57   | 62     | 72        | 68      | 60           | 51           |
| Kentucky.....           | 133  | 146    | 155       | 160     | 162          | 173          |
| Massachusetts.....      | 43   | 40     | 38        | 39      | 39           | 43           |
| New York.....           | 51   | 54     | 54        | 56      | 54           | 53           |
| Ohio.....               | 72   | 71     | 71        | 76      | 76           | 68           |
| Pennsylvania.....       | 171  | 144    | 141       | 157     | 160          | 164          |
| Tennessee.....          | 266  | 272    | 214       | 234     | 221          | 218          |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 85.9; 1923, 82.1; 1921, 79.5; 1919, 82.5.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                          | 1923             |                                       | 1919             |                                       |
|---|---------|--------------------------|------------------|---------------------------------------|------------------|---------------------------------------|
|   | Num-ber | Horse-power              | Num-ber          | Horse-power                           | Num-ber          | Horse-power                           |
| Prime movers, total.....                                    | 432     | 8,689                    | 375              | 10,647                                | 889              | <sup>1</sup> 23,672                   |
| Steam engines.....  | 71      | 5,022                    | 105              | 7,738                                 | 180              | 17,563                                |
| Steam turbines.....   | 1       | 149                      |                  |                                       | 3                | 135                                   |
| Internal-combustion engines.....                            | 8       | 235                      |                  |                                       | 34               | 468                                   |
| Water turbines.....   | 2       | 40                       | 5                | 205                                   | <sup>2</sup> 11  | <sup>2</sup> 545                      |
| Electric motors driven by purchased current.....            | 350     | 3,243                    | 257              | 2,410                                 | 661              | 4,961                                 |
| Electric motors, total.....                                 | 370     | 3,406                    | 278              | 2,973                                 | 826              | 7,845                                 |
| Driven by purchased current.....                            | 350     | 3,243                    | 257              | 2,410                                 | 661              | 4,961                                 |
| Driven by current generated in establishment reporting..... | 20      | 163                      | 21               | 563                                   | 165              | 2,884                                 |
| Electric generators.....                                    | 5       | <i>Kilo-watts</i><br>170 | ( <sup>3</sup> ) | <i>Kilo-watts</i><br>( <sup>3</sup> ) | ( <sup>3</sup> ) | <i>Kilo-watts</i><br>( <sup>3</sup> ) |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Includes data for a small number of water motors.

<sup>3</sup> Not called for on schedule.

TABLE 4.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salariéd officers and employees | Wage earners (average number) |             |
| United States.....                  | 81                       | 1,631                           | 50                           | 192                             | 1,389                         | 8,689       |
| Arkansas.....                       | 5                        | 163                             | 1                            | 16                              | 146                           | 629         |
| Indiana.....                        | 7                        | 93                              | 2                            | 13                              | 78                            | 935         |
| Kentucky.....                       | 7                        | 174                             | 5                            | 15                              | 154                           | 1,080       |
| Massachusetts.....                  | 6                        | 63                              | 9                            | 12                              | 42                            | 588         |
| New York.....                       | 6                        | 65                              | 4                            | 4                               | 57                            | 207         |
| Ohio.....                           | 8                        | 84                              | 3                            | 11                              | 70                            | 729         |
| Pennsylvania.....                   | 11                       | 200                             | 9                            | 25                              | 166                           | 859         |
| Tennessee.....                      | 7                        | 295                             | 3                            | 30                              | 262                           | 1,402       |
| All other States <sup>1</sup> ..... | 24                       | 494                             | 14                           | 66                              | 414                           | 2,260       |

| STATE                               | Salaries  | Wages       | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-----------|-------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$388,964 | \$1,215,794 | \$17,097               | \$2,658,631       | \$5,117,616       | \$2,458,985                             |
| Arkansas.....                       | 31,746    | 124,522     | -----                  | 390,687           | 701,984           | 311,297                                 |
| Indiana.....                        | 28,086    | 71,544      | -----                  | 131,954           | 270,388           | 147,434                                 |
| Kentucky.....                       | 32,907    | 134,077     | -----                  | 257,641           | 519,254           | 261,613                                 |
| Massachusetts.....                  | 28,819    | 62,151      | 16,157                 | 61,224            | 170,197           | 108,973                                 |
| New York.....                       | 5,400     | 57,803      | 840                    | 97,880            | 176,029           | 78,149                                  |
| Ohio.....                           | 22,426    | 80,191      | -----                  | 138,320           | 268,467           | 130,147                                 |
| Pennsylvania.....                   | 48,188    | 141,418     | -----                  | 300,128           | 553,604           | 253,476                                 |
| Tennessee.....                      | 69,006    | 170,641     | -----                  | 443,591           | 869,931           | 426,340                                 |
| All other States <sup>1</sup> ..... | 122,386   | 373,447     | 100                    | 837,206           | 1,678,762         | 741,556                                 |

<sup>1</sup> Alabama, 2 establishments; California, 1; Connecticut, 1; Georgia, 1; Illinois, 2; Iowa, 3; Louisiana, 1; Maine, 2; Maryland, 1; Michigan, 1; Minnesota, 1; Mississippi, 2; Missouri, 1; New Hampshire, 1; New Jersey, 1; West Virginia, 2; Wisconsin, 1.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of carriage, wagon, sleigh, and sled materials: \$415,008. Does not include value of carriage, wagon, sleigh, and sled materials made as secondary products by establishments classified in other industries: \$954,162.



# CARS, ELECTRIC AND STEAM-RAILROAD

[A preliminary report for this industry was issued under date of September 13, 1926]

**Description of the industry.**—This industry consists in the building, rebuilding, and repair of railroad cars by establishments engaged primarily in such work, not including railroad repair shops. (See Tables 1 to 7.)

**Detailed statistics of products.**—The numbers and values of the several classes and types of cars manufactured are shown in Tables 4, 5, and 6. Tables 4 and 6 relate only to the industry proper, but the figures in Table 5 include also data for cars built in railroad repair shops and by establishments in other industries.

The item "All other products" consists in large measure of parts sold as such but includes, in addition, various miscellaneous products normally, belonging to other industries, such as bus bodies, automotive wheels, forgings, hand trucks, mine cars, sugar machinery, storage tanks, warehouse trailers, scrap metal, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--------------------------------------|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|------------------|
| 1925.....                            | 141                      | 50,393                        | \$77,246,962 | \$1,090,422            | \$266,053,504                  | \$390,771,210     | \$124,717,706                           | 243,934          |
| 1923.....                            | 139                      | 80,590                        | 129,178,010  | 154,479                | 413,660,102                    | 604,350,341       | 190,690,239                             | 250,102          |
| 1921.....                            | 118                      | 48,033                        | 70,944,834   | 2,943                  | 211,938,355                    | 340,536,225       | 128,597,870                             | ( <sup>3</sup> ) |
| 1919.....                            | 106                      | 55,218                        | 82,416,737   | 39,054                 | 368,143,487                    | 556,664,807       | 188,521,320                             | 167,180          |
| 1914.....                            | 117                      | 58,128                        | 43,860,606   | 129,904                | 138,549,938                    | 205,270,622       | 66,720,684                              | 135,898          |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                       | 1.4                      | —37.5                         | —40.2        | 605.9                  | —35.7                          | —35.3             | —34.6                                   | —2.5             |
| 1921-1923.....                       | 17.8                     | 67.8                          | 82.1         | ( <sup>4</sup> )       | 95.2                           | 77.5              | 48.3                                    | -----            |
| 1921-1925.....                       | 19.5                     | 4.9                           | 8.9          | ( <sup>4</sup> )       | 23.5                           | 14.8              | —3.0                                    | -----            |
| 1914-1925.....                       | 20.5                     | —13.3                         | 76.1         | 739.4                  | 92.0                           | 90.4              | 86.9                                    | 79.5             |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1104.)

<sup>5</sup> Percentages higher than 1,000 are not shown.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 7, p. 1107]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |            |         |           |           |
|-------------------------|-------------------------------------|--|----------|------------|---------|-----------|-----------|
|                         |                                     | January  | February | March      | April   | May       | June      |
| United States:          |                                     |  |          |            |         |           |           |
| 1925 <sup>1</sup> ..... | 50,393                              | 58,886   | 58,975   | 58,783     | 57,757  | 53,874    | 52,419    |
| 1923 <sup>1</sup> ..... | 80,590                              | 78,914   | 78,295   | 81,261     | 78,806  | 80,325    | 83,027    |
| 1921 <sup>1</sup> ..... | 48,033                              | 67,852   | 65,974   | 59,672     | 53,596  | 46,847    | 41,437    |
| 1919 <sup>1</sup> ..... | 55,218                              | 68,939   | 64,785   | 59,622     | 58,283  | 56,800    | 54,225    |
| Delaware.....           | 1,062                               | 1,171  | 1,079    | 1,003      | 1,046   | 1,106     | 1,185     |
| Illinois.....           | 13,965                              | 16,347   | 16,302   | 15,952     | 16,805  | 15,732    | 15,050    |
| Indiana.....            | 6,496                               | 7,506  | 7,851    | 8,370      | 8,339   | 7,153     | 6,520     |
| Kansas.....             | 600                                 | 479  | 457      | 391        | 532     | 734       | 867       |
| Missouri.....           | 3,973                               | 5,029  | 5,346    | 5,403      | 5,405   | 4,582     | 4,770     |
| New York.....           | 2,776                               | 2,846  | 2,936    | 2,890      | 2,774   | 2,768     | 2,685     |
| Ohio.....               | 1,893                               | 2,134  | 1,945    | 2,222      | 2,065   | 1,293     | 1,306     |
| Pennsylvania.....       | 9,545                               | 13,011   | 13,241   | 12,728     | 11,209  | 10,492    | 9,418     |
| STATE                   |                                     | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |            |         |           |           |
|                         |                                     | July   | August   | Septem-ber | October | Novem-ber | Decem-ber |
| United States:          |                                     |  |          |            |         |           |           |
| 1925 <sup>1</sup> ..... |                                     | 46,238   | 45,519   | 44,015     | 41,757  | 41,548    | 44,941    |
| 1923 <sup>1</sup> ..... |                                     | 82,151   | 85,096   | 82,774     | 81,481  | 80,164    | 74,791    |
| 1921 <sup>1</sup> ..... |                                     | 39,732   | 38,153   | 36,373     | 37,575  | 42,568    | 46,617    |
| 1919 <sup>1</sup> ..... |                                     | 52,849   | 51,371   | 49,325     | 47,845  | 47,938    | 50,544    |
| Delaware.....           |                                     | 844  | 871      | 1,035      | 1,136   | 1,104     | 1,164     |
| Illinois.....           |                                     | 13,316   | 12,320   | 12,612     | 11,825  | 11,158    | 10,166    |
| Indiana.....            |                                     | 5,466  | 6,316    | 5,570      | 5,030   | 4,811     | 5,022     |
| Kansas.....             |                                     | 721  | 836      | 631        | 544     | 532       | 473       |
| Missouri.....           |                                     | 4,069  | 3,197    | 2,185      | 2,270   | 2,405     | 3,019     |
| New York.....           |                                     | 1,997  | 2,337    | 2,567      | 3,049   | 3,177     | 3,283     |
| Ohio.....               |                                     | 1,827  | 1,826    | 1,625      | 1,902   | 2,015     | 2,552     |
| Pennsylvania.....       |                                     | 7,459  | 6,845    | 6,861      | 6,290   | 7,120     | 9,861     |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 70.5; 1923, 87.9; 1921, 53.6; 1919, 69.4.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                              | 1923             |                              | 1919             |                              |
|---|---------|------------------------------|------------------|------------------------------|------------------|------------------------------|
|   | Num-ber | Horse-power                  | Num-ber          | Horse-power                  | Num-ber          | Horse-power                  |
| Prime movers, total.....                                    | 8,086   | 243,934                      | 8,086            | 250,102                      | 4,352            | 167,180                      |
| Steam engines.....  | 207     | 61,996                       | 368              | 109,783                      | 268              | 57,419                       |
| Steam turbines.....   | 42      | 48,884                       |                  |                              | 36               | 36,496                       |
| Internal-combustion engines.....                            | 15      | 2,402                        |                  |                              | 17               | 2,848                        |
| Water wheels and turbines.....                              | 1       | 100                          | 2                | 175                          | 1                | 100                          |
| Electric motors driven by purchased current.....            | 7,821   | 130,552                      | 7,697            | 136,963                      | 4,030            | 70,317                       |
| Electric motors, total.....                                 | 16,406  | 248,894                      | 15,469           | 255,023                      | 10,849           | 179,505                      |
| Driven by purchased current.....                            | 7,821   | 130,552                      | 7,697            | 136,963                      | 4,030            | 70,317                       |
| Driven by current generated in establishment reporting..... | 8,585   | 118,342<br><i>Kilo-watts</i> | 7,772            | 118,060<br><i>Kilo-watts</i> | 6,819            | 109,188<br><i>Kilo-watts</i> |
| Electric generators.....                                    | 127     | 55,720                       | ( <sup>2</sup> ) | ( <sup>2</sup> )             | ( <sup>2</sup> ) | ( <sup>2</sup> )             |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 4.—CARS BUILT, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1919 TO 1925

| CLASS   | 1925            | 1923            | 1921            | 1919             |
|---|-----------------|-----------------|-----------------|------------------|
| Total value <sup>1</sup> .....                | \$390, 771, 210 | \$604, 350, 341 | \$340, 536, 225 | \$556, 664, 807  |
| Steam-railroad cars:                          |                 |                 |                 |                  |
| Number.....                                   | 96, 132         | 166, 806        | 52, 613         | 153, 288         |
| Value.....                                    | \$247, 180, 664 | \$369, 924, 942 | \$176, 774, 656 | \$373, 945, 213  |
| Passenger service <sup>2</sup> —              |                 |                 |                 |                  |
| Number.....                                   | 2, 121          | 1, 837          | 1, 348          | 234              |
| Value.....                                    | \$54, 940, 366  | \$40, 252, 394  | \$34, 190, 789  | \$4, 854, 768    |
| Passenger—                                    |                 |                 |                 |                  |
| Number.....                                   | 593             | 1, 159          | 668             | 78               |
| Value.....                                    | \$13, 992, 732  | \$25, 182, 802  | \$16, 222, 580  | \$1, 285, 630    |
| Baggage and express—                          |                 |                 |                 |                  |
| Number.....                                   | 349             | 282             | 222             |                  |
| Value.....                                    | \$5, 676, 023   | \$4, 574, 094   | \$4, 466, 771   |                  |
| Chair, dining and buffet, mail, and sleeping— |                 |                 |                 |                  |
| Number.....                                   | 1, 027          | 321             | 383             | 156              |
| Value.....                                    | \$32, 144, 217  | \$9, 144, 192   | \$12, 032, 105  | \$3, 569, 138    |
| All other <sup>3</sup> —                      |                 |                 |                 |                  |
| Number.....                                   | 152             | 75              | 75              |                  |
| Value.....                                    | \$3, 127, 394   | \$1, 351, 306   | \$1, 469, 033   |                  |
| Freight service—                              |                 |                 |                 |                  |
| Number.....                                   | 94, 011         | 164, 969        | 51, 265         | 153, 054         |
| Value.....                                    | \$192, 240, 298 | \$329, 672, 548 | \$142, 583, 867 | \$369, 090, 445  |
| Box—  |                 |                 |                 |                  |
| Number.....                                   | 49, 230         | 60, 035         | 13, 809         | 59, 689          |
| Value.....                                    | \$101, 023, 855 | \$119, 147, 987 | \$40, 453, 425  | \$160, 903, 210  |
| Caboose—                                      |                 |                 |                 |                  |
| Number.....                                   | 242             | 552             | 362             | ( <sup>4</sup> ) |
| Value.....                                    | \$690, 775      | \$1, 411, 562   | \$1, 566, 687   | ( <sup>5</sup> ) |
| Flat—   |                 |                 |                 |                  |
| Number.....                                   | 2, 306          | 2, 949          | 1, 490          | 4, 029           |
| Value.....                                    | \$3, 225, 184   | \$4, 066, 481   | \$2, 393, 800   | \$7, 592, 168    |
| Gondola—                                      |                 |                 |                 |                  |
| Number.....                                   | 21, 402         | 29, 259         | 10, 043         | 54, 840          |
| Value.....                                    | \$42, 002, 090  | \$55, 072, 541  | \$27, 208, 735  | \$118, 853, 843  |
| Hopper—                                       |                 |                 |                 |                  |
| Number.....                                   | 3, 243          | 36, 630         | 10, 248         | 16, 670          |
| Value.....                                    | \$5, 869, 778   | \$66, 991, 785  | \$24, 962, 584  | \$45, 757, 395   |
| Refrigerator—                                 |                 |                 |                 |                  |
| Number.....                                   | 4, 704          | 19, 891         | 5, 860          | 4, 629           |
| Value.....                                    | \$14, 740, 724  | \$52, 261, 147  | \$23, 566, 217  | \$1, 237, 557    |
| Stock—  |                 |                 |                 |                  |
| Number.....                                   | 3, 310          | 3, 323          | 1, 868          | 410              |
| Value.....                                    | \$5, 876, 501   | \$5, 235, 294   | \$4, 311, 036   | \$960, 018       |
| Tank—   |                 |                 |                 |                  |
| Number.....                                   | 5, 396          | 6, 009          | 3, 832          | 11, 592          |
| Value.....                                    | \$10, 701, 728  | \$14, 073, 754  | \$11, 006, 990  | \$26, 540, 682   |
| All other <sup>4</sup> —                      |                 |                 |                 |                  |
| Number.....                                   | 4, 178          | 6, 321          | 3, 753          | 5, 195           |
| Value.....                                    | \$8, 109, 663   | \$11, 411, 997  | \$7, 114, 033   | \$7, 245, 572    |
| Electric-railroad cars:                       |                 |                 |                 |                  |
| Number.....                                   | 1, 834          | 2, 882          | 1, 420          | 1, 898           |
| Value.....                                    | \$19, 449, 304  | \$26, 184, 713  | \$10, 128, 472  | \$13, 502, 653   |
| Passenger—                                    |                 |                 |                 |                  |
| Number.....                                   | 1, 753          | 2, 767          | 1, 358          | 1, 726           |
| Value.....                                    | \$19, 030, 149  | \$25, 695, 737  | \$9, 525, 402   | \$11, 495, 791   |
| Freight—                                      |                 |                 |                 |                  |
| Number.....                                   | 12              | 47              | 14              |                  |
| Value.....                                    | \$41, 225       | \$140, 126      | \$68, 215       | 172              |
| All other <sup>5</sup> —                      |                 |                 |                 |                  |
| Number.....                                   | 69              | 68              | 48              |                  |
| Value.....                                    | \$377, 930      | \$348, 830      | \$534, 855      | \$2, 006, 862    |
| All other products, <sup>6</sup> value.....   | \$56, 833, 433  | \$75, 631, 847  | \$153, 633, 097 | \$169, 216, 941  |
| Repair work, value.....                       | \$67, 307, 809  | \$132, 608, 839 |                 |                  |

<sup>1</sup> In addition, cars, parts, and repairs were reported as secondary products by steam and electric railroad repair shops and by establishments engaged primarily in other industries, as follows: For 1925, 4,098 steam-railroad cars valued at \$7,379,450, 53 electric-railroad cars valued at \$608,983, and parts and repairs valued at \$1,395,462; for 1923, 15,062 steam-railroad cars valued at \$24,236,337, 383 electric-railroad cars valued at \$3,523,648, and parts and repairs valued at \$6,249,378; for 1921, 5,230 steam-railroad cars valued at \$13,722,001, 179 electric-railroad cars valued at \$1,313,827, and parts and repairs valued at \$330,576; for 1919, 5,814 steam-railroad cars valued at \$14,809,729, 154 electric-railroad cars valued at \$779,947, and parts and repairs valued at \$3,290,165.

<sup>2</sup> Includes, for 1925, 131 gasoline and gasoline-electric-motor cars for use by steam railroads; for 1923, a few of these cars were included.

<sup>3</sup> Included in "All other" freight-service cars.

<sup>4</sup> Includes fruit cars.

<sup>5</sup> Includes, for 1925, 456 ballast cars valued at \$912,800, 2,063 sugar-cane cars valued at \$3,270,942, 935 ore cars valued at \$1,098,613, and 160 poultry cars valued at \$535,000; for 1923, 1,199 ballast cars valued at \$2,841,898, 1,055 sugar-cane cars valued at \$1,566,074, 654 poultry cars valued at \$2,336,600, and 20 logging cars valued at \$9,320; for 1921, 150 mining cars valued at \$15,131; for 1919, 2,391 logging, mining, industrial, and dump cars valued at \$2,916,806.

<sup>6</sup> Includes parts sold as such.

TABLE 5.—CARS BUILT, BY CLASS, TYPE OF CONSTRUCTION, NUMBER, AND VALUE, FOR ALL INDUSTRIES, FOR THE UNITED STATES: 1925

[The differences between the items in this table and the corresponding items in Table 6 are due to the inclusion in this table and the exclusion from Table 6 of data for cars built by establishments classified in other industries]

| CLASS                        | NUMBER   |          |                   |                               |           | Value           |
|------------------------------|----------|----------|-------------------|-------------------------------|-----------|-----------------|
|                              | Total    | All wood | Steel under frame | Steel body with wood interior | All steel |                 |
| Total <sup>1</sup> .....     | 102, 117 | 8, 894   | 49, 982           | 9, 011                        | 34, 230   | \$274, 618, 406 |
| Steam-railroad cars.....     | 100, 230 | 8, 878   | 49, 515           | 8, 056                        | 33, 781   | 254, 560, 114   |
| Passenger <sup>2</sup> ..... | 2, 136   | 4        | 113               | 194                           | 1, 825    | 55, 232, 760    |
| Freight and other.....       | 98, 094  | 8, 874   | 49, 402           | 7, 862                        | 31, 956   | 199, 327, 354   |
| Electric-railroad cars.....  | 1, 887   | 16       | 467               | 955                           | 449       | 20, 058, 292    |
| Passenger.....               | 1, 798   | 11       | 424               | 955                           | 408       | 19, 604, 813    |
| Freight and other.....       | 89       | 5        | 43                | -----                         | 41        | 453, 479        |

<sup>1</sup> Includes data for 4,151 cars built by establishments engaged primarily in other industries—principally steam and electric railroad repair shops.

<sup>2</sup> Includes baggage, express, and mail cars.

TABLE 6.—CARS BUILT, BY CLASS, TYPE OF CONSTRUCTION, NUMBER, AND VALUE, FOR THE INDUSTRY, FOR THE UNITED STATES: 1925

[See headnote, Table 5]

| CLASS   | NUMBER  |          |                   |                               |           | Value           |
|---|---------|----------|-------------------|-------------------------------|-----------|-----------------|
|   | Total   | All wood | Steel under frame | Steel body with wood interior | All steel |                 |
| Aggregate <sup>1</sup> .....                      | 97, 966 | 7, 735   | 47, 176           | 8, 992                        | 34, 063   | \$266, 629, 968 |
| Steam-railroad cars.....                          | 96, 132 | 7, 724   | 46, 737           | 8, 056                        | 33, 615   | 247, 180, 664   |
| Passenger service, total.....                     | 2, 121  | 2        | 102               | 194                           | 1, 823    | 54, 940, 366    |
| Passenger.....                                    | 593     | -----    | 41                | 63                            | 489       | 13, 992, 732    |
| Baggage and express.....                          | 349     | -----    | 52                | 31                            | 266       | 5, 676, 023     |
| Chair, dining and buffet, mail, and sleeping..... | 1, 027  | 2        | 9                 | 20                            | 996       | 32, 144, 217    |
| All other.....                                    | 152     | -----    | -----             | 80                            | 72        | 3, 127, 394     |
| Freight service, total.....                       | 94, 011 | 7, 722   | 46, 635           | 7, 862                        | 31, 792   | 192, 240, 298   |
| Box.....  | 49, 230 | 6, 270   | 30, 537           | 5, 002                        | 7, 421    | 101, 023, 855   |
| Caboose.....                                      | 242     | 140      | 102               | -----                         | -----     | 690, 775        |
| Flat.....   | 2, 306  | 1        | 652               | 1, 050                        | 609       | 3, 225, 184     |
| Gondola.....                                      | 21, 402 | -----    | 6, 324            | 1, 800                        | 13, 278   | 42, 002, 090    |
| Hopper.....                                       | 3, 243  | -----    | 121               | -----                         | 3, 122    | 5, 869, 778     |
| Refrigerator.....                                 | 4, 704  | 1, 041   | 3, 663            | -----                         | -----     | 14, 740, 724    |
| Stock.....  | 3, 310  | 250      | 3, 060            | -----                         | -----     | 5, 876, 501     |
| Tank.....   | 5, 396  | -----    | 943               | -----                         | 4, 453    | 10, 701, 728    |
| All other.....                                    | 4, 178  | 20       | 1, 233            | 10                            | 2, 915    | 8, 109, 663     |
| Electric-railroad cars.....                       | 1, 834  | 11       | 439               | 936                           | 448       | 19, 449, 304    |
| Passenger.....                                    | 1, 753  | 11       | 398               | 936                           | 408       | 19, 030, 149    |
| Freight.....                                      | 12      | -----    | 12                | -----                         | -----     | 41, 225         |
| All other.....                                    | 69      | -----    | 29                | -----                         | 40        | 377, 930        |

<sup>1</sup> Not including data for cars built by railroad repair shops or by establishments in other industries. (See footnote 1, Table 5.)

TABLE 7.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Salaried officers and employees | Wage earners (average number) |             |
| United States .....                 | 141                      | 56,860                          | 16,467                          | 50,393                        | 243,934     |
| Delaware .....                      | 3                        | 1,282                           | 220                             | 1,062                         | 5,530       |
| Illinois .....                      | 30                       | 15,505                          | 1,540                           | 13,965                        | 46,609      |
| Indiana .....                       | 9                        | 7,262                           | 766                             | 6,496                         | 23,946      |
| Kansas .....                        | 7                        | 657                             | 57                              | 600                           | 2,910       |
| Missouri .....                      | 9                        | 4,576                           | 603                             | 3,973                         | 16,520      |
| New York .....                      | 8                        | 3,067                           | 291                             | 2,776                         | 24,486      |
| Ohio .....                          | 13                       | 2,303                           | 410                             | 1,893                         | 14,831      |
| Pennsylvania .....                  | 15                       | 10,746                          | 1,201                           | 9,545                         | 51,652      |
| All other States <sup>1</sup> ..... | 47                       | 11,462                          | 1,379                           | 10,083                        | 57,450      |

  

| STATE                               | Salaries     | Wages        | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|--------------|--------------|------------------------|-------------------|-------------------|---|
| United States .....                 | \$13,970,872 | \$77,246,992 | \$1,090,422            | \$266,053,504     | \$390,771,210     | \$124,717,706                           |
| Delaware .....                      | 418,586      | 1,628,225    | -----                  | 2,983,473         | 5,634,589         | 2,651,116                               |
| Illinois .....                      | 3,241,717    | 22,024,543   | 275,440                | 77,171,481        | 113,939,214       | 36,767,733                              |
| Indiana .....                       | 1,604,062    | 10,168,662   | -----                  | 45,254,391        | 59,024,272        | 13,769,881                              |
| Kansas .....                        | 124,056      | 853,052      | -----                  | 2,321,126         | 3,374,012         | 1,052,886                               |
| Missouri .....                      | 1,209,444    | 5,939,988    | -----                  | 24,764,513        | 34,895,707        | 10,131,194                              |
| New York .....                      | 625,160      | 4,288,612    | -----                  | 8,539,018         | 13,798,986        | 5,259,968                               |
| Ohio .....                          | 932,169      | 2,765,468    | -----                  | 12,916,612        | 16,988,687        | 4,071,975                               |
| Pennsylvania .....                  | 2,631,885    | 14,569,104   | 742,981                | 57,461,390        | 84,254,273        | 26,792,883                              |
| All other States <sup>2</sup> ..... | 3,183,793    | 15,009,338   | 72,001                 | 34,641,500        | 58,861,570        | 24,220,070                              |

<sup>1</sup> Not including 1,845 salaried officers and employees of central administrative offices, with salaries aggregating \$5,156,523. For purposes of comparison with the statistics published for earlier years, these figures should be added to those given in the table, making combined totals of 3,312 salaried officers and employees and \$19,127,395. (See "Central-administrative-office employees," p. 1193.)

<sup>2</sup> Alabama, 1 establishment; California, 4; Florida, 1; Georgia, 2; Iowa, 3; Maine, 1; Maryland, 1; Massachusetts, 3; Michigan, 1; Minnesota, 3; Nebraska, 1; New Hampshire, 1; New Jersey, 3; North Carolina, 1; Oklahoma, 3; Oregon, 1; Tennessee, 2; Texas, 5; Virginia, 3; Washington, 2; West Virginia, 1; Wisconsin, 3; Wyoming, 1.

<sup>3</sup> Value of products less cost of materials (See secs. 20 and 24, pp. 8 and 9.)

<sup>4</sup> See footnote 1, Table 4, p. 1106.

# LOCOMOTIVES

[A preliminary report for this industry was issued under date of June 18, 1926]

**Description of the industry.**—The establishments classified in the locomotive industry are those engaged exclusively or chiefly in the manufacture of steam and internal-combustion locomotives. In addition, a few steam locomotives are manufactured by establishments classified as steam-railroad repair shops.

**Electric locomotives.**—Electric locomotives are manufactured principally by establishments classified in the "Electrical machinery, apparatus, and supplies" industry. The total production of electric locomotives in all industries is shown in Table 3.

**Omission of State statistics.**—In order to avoid disclosing operations of individual establishments, no statistics for this industry are shown by States.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power <sup>3</sup> |
|--------------------------------------|--------------------------|-------------------------------|--------------|--------------------------------|-------------------|---|--------------------------|
| 1925.....                            | 18                       | 12,809                        | \$18,218,843 | \$41,717,142                   | \$65,389,134      | \$23,671,992                            | 114,209                  |
| 1923.....                            | 19                       | 30,672                        | 51,866,976   | 124,261,528                    | 215,392,951       | 91,131,423                              | 91,214                   |
| 1921.....                            | 22                       | 16,583                        | 20,472,715   | 55,411,656                     | 102,023,353       | 46,611,702                              | ( <sup>4</sup> )         |
| 1919.....                            | 17                       | 26,715                        | 38,798,641   | 72,375,950                     | 156,269,730       | 83,893,780                              | <sup>5</sup> 96,504      |
| 1914.....                            | 19                       | 17,391                        | 11,085,375   | 23,546,118                     | 43,374,141        | 19,828,023                              | 50,373                   |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                                |                   |   |                          |
| 1923-1925.....                       | ( <sup>6</sup> )         | —58.2                         | —64.9        | —66.4                          | —69.6             | —74.0                                   | 25.2                     |
| 1921-1923.....                       | ( <sup>6</sup> )         | 85.0                          | 153.3        | 124.3                          | 111.1             | 95.5                                    | -----                    |
| 1921-1925.....                       | ( <sup>6</sup> )         | —22.8                         | —11.0        | —24.7                          | —35.9             | —49.2                                   | -----                    |
| 1914-1925.....                       | ( <sup>6</sup> )         | —26.3                         | 64.4         | 77.2                           | 50.8              | 19.4                                    | 126.7                    |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Total primary horsepower of factory power-plant equipment. (See Table 2.)

<sup>4</sup> Not called for on schedule.

<sup>5</sup> This figure differs slightly from the corresponding one published in the reports for 1919 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 2.)

<sup>6</sup> Not computed where base is less than 100.

TABLE 2.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                             | 1923             |                             | 1919             |                             |
|---|---------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|
|   | Num-ber | Horse-power                 | Num-ber          | Horse-power                 | Num-ber          | Horse-power                 |
| Prime movers, total.....                                    | 4,083   | 114,209                     | 4,111            | 91,214                      | 3,018            | 196,504                     |
| Steam engines.....  | 80      | 20,452                      | 64               | 27,782                      | 78               | 27,010                      |
| Steam turbines.....   | 12      | 13,258                      |                  |                             |                  |                             |
| Internal-combustion engines.....                            | 26      | 6,558                       | 9                | 2,853                       | 5                | 3,355                       |
| Electric motors driven by purchased current.....            | 3,965   | 73,941                      | 4,038            | 60,579                      | 2,927            | 59,084                      |
| Electric motors, total.....                                 | 7,233   | 141,093                     | 7,594            | 121,228                     | 5,763            | 118,873                     |
| Driven by purchased current.....                            | 3,965   | 73,941                      | 4,038            | 60,579                      | 2,927            | 59,084                      |
| Driven by current generated in establishment reporting..... | 3,268   | 67,152<br><i>Kilo-watts</i> | 3,556            | 60,649<br><i>Kilo-watts</i> | 2,836            | 59,789<br><i>Kilo-watts</i> |
| Electric generators.....                                    | 91      | 32,365                      | ( <sup>2</sup> ) | ( <sup>2</sup> )            | ( <sup>2</sup> ) | ( <sup>2</sup> )            |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 3.—LOCOMOTIVES BUILT, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1919 TO 1925

| CLASS  | 1925                      | 1923          | 1921          | 1919                      |
|--|---------------------------|---------------|---------------|---------------------------|
| Total value.....   | \$77,708,939              | \$228,986,429 | \$113,626,756 | \$164,603,500             |
| The locomotive industry.....   | 65,389,134                | 215,392,951   | 102,023,358   | 156,269,730               |
| Locomotives.....   | 46,217,938                | 181,079,620   | 79,037,822    | 130,802,650               |
| All other products.....  | 19,171,196                | 34,313,331    | 22,985,536    | 125,377,080               |
| Locomotives and parts made in other industries.....                        | 12,319,805                | 13,593,478    | 11,603,398    | 8,353,770                 |
| Locomotives (all industries):  |                           |               |               |                           |
| Steam—   |                           |               |               |                           |
| Number.....  | 1,310                     | 3,598         | 1,757         | 3,411                     |
| Value.....   | \$46,301,353              | \$184,468,714 | \$79,676,774  | \$139,226,420             |
| Electric —   |                           |               |               |                           |
| Number.....  | 722                       | 1,409         | 1,508         | 251                       |
| Value.....   | <sup>3</sup> \$10,331,139 | \$8,864,749   | \$9,397,441   |                           |
| Internal-combustion—   |                           |               |               |                           |
| Number.....  | ( <sup>4</sup> )          | 458           | 252           |                           |
| Value.....   | \$1,726,782               | \$1,339,635   | \$1,036,510   | <sup>1</sup> \$25,377,080 |
| Parts, value.....  | \$15,587,468              | \$28,917,339  | \$20,189,585  |                           |
| All other products, value, and receipts for repair work <sup>4</sup> ..... | \$3,762,197               | \$5,395,992   | \$3,326,446   |                           |

<sup>1</sup> Combined value of electric locomotives, parts for steam and electric locomotives, and "All other products and receipts for repair work." Value of electric locomotives not shown separately in order to avoid disclosing operations of individual establishments. No internal-combustion locomotives reported.

<sup>2</sup> See "Electric locomotives," p. 1108.

<sup>3</sup> Includes value of electric locomotives made by 1 establishment which did not report number.

<sup>4</sup> Data incomplete.

<sup>5</sup> Principally repairing and rebuilding, but includes also such miscellaneous products as special parts for machinery and cars, hardware specialties, gray-iron castings, and scrap.

## MOTOR CYCLES, BICYCLES, AND PARTS

[A preliminary report for this industry was issued under date of July 15, 1926]

**Description of the industry.**—The industry designated as "Motor cycles, bicycles, and parts" embraces two branches: (1) Motor cycles and parts, including side and delivery cars; (2) bicycles and parts. The statistics cover establishments engaged primarily in manufacturing or assembling complete motor cycles or bicycles, or in manufacturing parts and accessories other than engines, tires, lamps, or electrical supplies.<sup>1</sup> The total value of products for the industry thus includes duplication to the extent to which the products of establishments engaged primarily in the manufacture of parts and accessories are used as materials by establishments manufacturing complete machines. Many of the parts and accessories are, however, sold to dealers or consumers for use as additional equipment or for replacement.

**Decrease in number of establishments.**—The total number of establishments classified in this industry has been decreasing from census to census. The number of manufacturers of bicycles and parts increased from 25 in 1923 to 26 in 1925, but during the same period the number of establishments in the motor-cycle branch decreased from 14 to 10. (See Table 1.) The decrease in the total number of establishments from 39 in 1923 to 36 in 1925 was the net result of the omission of 7 establishments which were included for 1923 and the inclusion of 4 new establishments. Of the 7 establishments omitted, 3 had gone out of business before the beginning of 1925; 2 were not engaged in manufacturing in 1925; 1 was idle during the entire year; and 1 reported products valued at less than \$5,000. (See sec. 10, p. 5.)

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<sup>1</sup> Engines, tires, lamps (other than electric), and electrical equipment (including electric lamps) made for sale as such by establishments engaged primarily in the manufacture of these commodities are included as products of the "Engines and water wheels," "Rubber tires and inner tubes," "Lamps and reflectors," and "Electrical machinery, apparatus, and supplies" industries, respectively.



TABLE 1.—SUMMARY FOR THE INDUSTRY, 1914 TO 1925, AND FOR ITS BRANCHES, 1919 TO 1925, FOR THE UNITED STATES

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                                     | Number of establishments | Wage earners (average number) | Wages       | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power <sup>3</sup> |
|--|--------------------------|-------------------------------|-------------|------------------------|--------------------------------|-------------------|---|--------------------------|
| <b>THE INDUSTRY AS A WHOLE</b>                     |                          |                               |             |                        |                                |                   |   |                          |
| 1925.....  | 36                       | 4,103                         | \$5,662,397 | -----                  | \$12,176,935                   | \$24,257,923      | \$12,080,988                            | 12,609                   |
| 1923.....  | 39                       | 6,576                         | 8,010,021   | \$686                  | 18,002,907                     | 32,259,205        | 14,256,298                              | 14,840                   |
| 1921.....  | 46                       | 4,308                         | 4,981,295   | 167,765                | 10,322,811                     | 23,097,749        | 12,774,938                              | ( <sup>4</sup> ) 14,840  |
| 1919.....  | 51                       | 10,886                        | 12,763,235  | 1,036                  | 25,985,915                     | 53,105,895        | 27,119,980                              | <sup>5</sup> 14,420      |
| 1914.....  | 78                       | 6,680                         | 4,738,750   | 60,127                 | 10,927,654                     | 22,234,262        | 11,306,608                              | <sup>6</sup> 8,718       |
| Per cent of increase or decrease (—): <sup>6</sup> |                          |                               |             |                        |                                |                   |   |                          |
| 1923-1925.....                                     | -----                    | -36.2                         | -29.3       | -----                  | -32.4                          | -24.8             | -15.3                                   | -15.0                    |
| 1921-1923.....                                     | -----                    | 52.6                          | 60.8        | -99.6                  | 74.4                           | 39.7              | 11.6                                    | -----                    |
| 1921-1925.....                                     | -----                    | -2.7                          | 13.7        | -----                  | 18.0                           | 5.0               | -5.4                                    | -----                    |
| 1914-1925.....                                     | -----                    | -37.2                         | 19.5        | -----                  | 11.4                           | 9.1               | 6.8                                     | 44.6                     |
| <b>MOTOR CYCLES</b>                                |                          |                               |             |                        |                                |                   |   |                          |
| 1925.....  | 10                       | 2,302                         | \$3,326,957 | -----                  | \$6,286,790                    | \$12,801,657      | \$6,514,867                             | 6,186                    |
| 1923.....  | 14                       | 3,454                         | 4,213,414   | -----                  | 8,383,105                      | 15,550,998        | 7,107,893                               | 6,072                    |
| 1921.....  | 22                       | 2,665                         | 3,124,614   | \$167,765              | 5,680,790                      | 13,567,970        | 7,887,180                               | ( <sup>4</sup> )         |
| 1919.....  | 20                       | 5,702                         | 6,291,558   | -----                  | 14,109,049                     | 28,609,327        | 14,500,278                              | ( <sup>7</sup> )         |
| Per cent of increase or decrease (—): <sup>6</sup> |                          |                               |             |                        |                                |                   |   |                          |
| 1923-1925.....                                     | -----                    | -33.4                         | -21.0       | -----                  | -25.0                          | -17.7             | -9.1                                    | 1.9                      |
| 1921-1923.....                                     | -----                    | 29.6                          | 34.8        | -----                  | 47.6                           | 14.6              | -9.1                                    | -----                    |
| 1921-1925.....                                     | -----                    | -13.6                         | 6.5         | -----                  | 10.7                           | -5.6              | -17.4                                   | -----                    |
| <b>BICYCLES</b>                                    |                          |                               |             |                        |                                |                   |   |                          |
| 1925.....  | 26                       | 1,801                         | \$2,335,440 | -----                  | \$5,890,145                    | \$11,456,266      | \$5,566,121                             | 6,423                    |
| 1923.....  | 25                       | 3,122                         | 3,796,607   | \$686                  | 9,619,802                      | 16,708,207        | 7,088,405                               | 8,768                    |
| 1921.....  | 24                       | 1,643                         | 1,856,681   | -----                  | 4,642,021                      | 9,524,779         | 4,887,758                               | ( <sup>4</sup> )         |
| 1919.....  | 31                       | 5,184                         | 6,471,677   | 1,036                  | 11,876,866                     | 24,496,568        | 12,619,702                              | ( <sup>7</sup> )         |
| Per cent of increase or decrease (—): <sup>6</sup> |                          |                               |             |                        |                                |                   |   |                          |
| 1923-1925.....                                     | -----                    | -39.4                         | -38.5       | -----                  | -38.8                          | -31.4             | -21.5                                   | -26.7                    |
| 1921-1923.....                                     | -----                    | 90.0                          | 104.5       | -----                  | 107.2                          | 75.3              | 45.0                                    | -----                    |
| 1921-1925.....                                     | -----                    | 15.1                          | 25.8        | -----                  | 26.9                           | 20.2              | 13.9                                    | -----                    |

<sup>1</sup> Including also cost of fuel and electric power.<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)<sup>3</sup> Horsepower of prime movers in motor-cycle factories; *not* horsepower of motor cycles manufactured.<sup>4</sup> Not called for on schedule.<sup>5</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1112.)<sup>6</sup> Per cent not shown where base is less than 100.<sup>7</sup> Not reported separately.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRY, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1113]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |        |        |        |        |
|-------------------------|-------------------------------------|--|----------|--------|--------|--------|--------|
|                         |                                     | January  | February | March  | April  | May    | June   |
| United States:          |                                     |  |          |        |        |        |        |
| 1925 <sup>1</sup> ..... | 4,193                               | 4,092  | 4,220    | 4,358  | 4,414  | 4,159  | 3,866  |
| 1923 <sup>1</sup> ..... | 6,576                               | 6,508  | 6,838    | 7,013  | 7,038  | 6,911  | 6,898  |
| 1921 <sup>1</sup> ..... | 4,308                               | 5,760  | 5,314    | 5,009  | 4,150  | 3,001  | 2,693  |
| 1919 <sup>1</sup> ..... | 10,886                              | 11,258   | 10,166   | 10,550 | 10,903 | 10,952 | 10,777 |
| Connecticut.....        | 109                                 | 101  | 105      | 110    | 110    | 107    | 107    |
| Illinois.....           | 466                                 | 527  | 552      | 603    | 660    | 480    | 415    |
| Indiana.....            | 237                                 | 299  | 318      | 306    | 257    | 232    | 149    |
| Massachusetts.....      | 1,421                               | 1,415  | 1,357    | 1,377  | 1,407  | 1,424  | 1,444  |
| New York.....           | 323                                 | 373  | 395      | 320    | 311    | 321    | 271    |
| Ohio.....               | 279                                 | 213  | 225      | 242    | 252    | 246    | 233    |

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |        |           |         |          |          |
|-------------------------|--|--------|-----------|---------|----------|----------|
|                         | July   | August | September | October | November | December |
| United States:          |  |        |           |         |          |          |
| 1925 <sup>1</sup> ..... | 3,691  | 3,813  | 3,991     | 4,471   | 4,641    | 4,659    |
| 1923 <sup>1</sup> ..... | 6,773  | 6,872  | 6,817     | 6,179   | 6,186    | 5,893    |
| 1921 <sup>1</sup> ..... | 3,119  | 3,775  | 4,342     | 4,862   | 5,307    | 4,460    |
| 1919 <sup>1</sup> ..... | 10,628   | 10,630 | 10,616    | 11,008  | 11,491   | 11,653   |
| Connecticut.....        | 109  | 111    | 110       | 111     | 111      | 121      |
| Illinois.....           | 365  | 355    | 379       | 420     | 423      | 419      |
| Indiana.....            | 131  | 134    | 81        | 243     | 299      | 292      |
| Massachusetts.....      | 1,416  | 1,428  | 1,315     | 1,437   | 1,507    | 1,520    |
| New York.....           | 137  | 134    | 248       | 410     | 473      | 478      |
| Ohio.....               | 234  | 264    | 313       | 401     | 384      | 349      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 77.9; 1923, 83.7; 1921, 45; 1919, 87.2.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE INDUSTRY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                | 1923    |                | 1919    |                |
|---|---------|----------------|---------|----------------|---------|----------------|
|   | Num-ber | Horse-power    | Num-ber | Horse-power    | Num-ber | Horse-power    |
| Prime movers, total.....                                    | 1,010   | 12,609         | 1,080   | 14,840         | 989     | 14,420         |
| Steam engines.....  | 9       | 2,100          | 16      | 2,686          | 19      | 3,700          |
| Steam turbines.....   | 1       | 60             |         |                | 1       | 270            |
| Internal-combustion engines.....                            | 4       | 205            | 4       | 205            | 2       | 90             |
| Water wheels and turbines.....                              | 996     | 10,244         | 1,059   | 11,589         | 963     | 10,283         |
| Electric motors driven by purchased current.....            |         |                |         |                |         |                |
| Electric motors, total.....                                 | 1,044   | 11,176         | 1,173   | 14,170         | 1,017   | 11,633         |
| Driven by purchased current.....                            | 996     | 10,244         | 1,059   | 11,589         | 963     | 10,283         |
| Driven by current generated in establishment reporting..... | 48      | 932            | 114     | 2,581          | 54      | 1,350          |
| Electric generators.....                                    | 5       | Kilo-watts 995 | (2)     | Kilo-watts (2) | (2)     | Kilo-watts (2) |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE INDUSTRY, FOR THE UNITED STATES: 1919 TO 1925

| CLASS  | 1925         | 1923         | 1921         | 1919         |
|--|--------------|--------------|--------------|--------------|
| Total value.....   | \$25,319,108 | \$33,361,072 | \$23,426,139 | \$55,311,643 |
| Motor cycles and bicycles industry, all products.....                  | 24,257,923   | 32,259,205   | 23,097,749   | 53,105,895   |
| Motor cycles, bicycles, and parts.....                                 | 22,439,559   | 29,799,153   | 20,728,406   | 44,851,556   |
| All other products and receipts for repair work.....                   | 1,818,364    | 2,460,052    | 2,369,343    | 8,254,239    |
| Motor cycles and bicycles, secondary products of other industries..... | 1,061,185    | 1,101,867    | 328,390      | 2,205,748    |
| Motor cycles, bicycles, and parts, total, all industries.....          | \$23,500,744 | \$30,901,020 | \$21,056,796 | \$47,057,404 |
| Motor cycles:  |              |              |              |              |
| Number.....  | 39,350       | 41,898       | 26,991       | 59,122       |
| Value.....   | \$8,875,657  | \$10,025,170 | \$6,438,706  | \$16,196,128 |
| Bicycles:  |              |              |              |              |
| Number.....  | 303,446      | 486,177      | 216,464      | 470,675      |
| Value.....   | \$7,030,566  | \$10,726,900 | \$6,218,394  | \$12,690,670 |
| Motor-cycle parts, value.....  | \$3,191,890  | \$3,557,561  | \$6,231,849  | \$11,728,183 |
| Side cars, value.....  | \$577,641    | \$908,318    | \$2,167,847  | \$6,442,423  |
| Bicycle parts, value.....  | \$3,824,990  | \$5,683,071  |              |              |

TABLE 5.—GENERAL STATISTICS FOR THE INDUSTRY AND ITS BRANCHES, FOR THE UNITED STATES, AND FOR THE INDUSTRY AS A WHOLE, BY STATES, 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                                      | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power <sup>1</sup> |
|--|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|--------------------------|
|  |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |                          |
| United States—The industry as a whole..... | 36                       | 4, 970                          | 8                            | 769                             | 4, 193                        | 12, 609                  |
| Motor cycles and parts.....                | 10                       | 2, 777                          | 4                            | 471                             | 2, 302                        | 6, 186                   |
| Bicycles and parts.....                    | 26                       | 2, 193                          | 4                            | 298                             | 1, 891                        | 6, 423                   |
| The industry as a whole, by States:        |                          |                                 |                              |                                 |                               |                          |
| Connecticut.....                           | 3                        | 124                             | -----                        | 15                              | 109                           | 1, 834                   |
| Illinois.....                              | 5                        | 594                             | -----                        | 128                             | 466                           | 1, 499                   |
| Indiana.....                               | 4                        | 269                             | 3                            | 29                              | 237                           | 869                      |
| Massachusetts.....                         | 6                        | 1, 646                          | -----                        | 225                             | 1, 421                        | 3, 504                   |
| New York.....                              | 5                        | 375                             | 2                            | 50                              | 323                           | 871                      |
| Ohio.....                                  | 5                        | 315                             | -----                        | 36                              | 279                           | 502                      |
| All other States <sup>2</sup> .....        | 8                        | 1, 647                          | 3                            | 286                             | 1, 358                        | 3, 530                   |

| STATE                                      | Salaries      | Wages         | Cost of materials | Value of products | Value added by manufacture <sup>3</sup> |
|--|---------------|---------------|-------------------|-------------------|---|
| United States—The industry as a whole..... | \$1, 654, 880 | \$5, 662, 397 | \$12, 176, 935    | \$24, 257, 923    | \$12, 080, 988                          |
| Motor cycles and parts.....                | 892, 002      | 3, 326, 957   | 6, 286, 790       | 12, 801, 657      | 6, 514, 867                             |
| Bicycles and parts.....                    | 762, 878      | 2, 335, 440   | 5, 890, 145       | 11, 456, 266      | 5, 566, 121                             |
| The industry as a whole, by States:        |               |               |                   |                   |   |
| Connecticut.....                           | 33, 843       | 149, 860      | 409, 659          | 753, 272          | 343, 613                                |
| Illinois.....                              | 245, 088      | 730, 812      | 1, 716, 744       | 3, 161, 064       | 1, 444, 320                             |
| Indiana.....                               | 83, 461       | 309, 025      | 885, 608          | 1, 759, 972       | 874, 364                                |
| Massachusetts.....                         | 415, 309      | 1, 842, 918   | 4, 124, 730       | 8, 328, 689       | 4, 203, 959                             |
| New York.....                              | 141, 402      | 397, 363      | 886, 406          | 1, 735, 602       | 849, 196                                |
| Ohio.....                                  | 94, 255       | 326, 604      | 630, 091          | 1, 293, 311       | 663, 220                                |
| All other States <sup>2</sup> .....        | 641, 522      | 1, 905, 815   | 3, 523, 697       | 7, 226, 013       | 3, 702, 316                             |

<sup>1</sup> Horsepower of prime movers in motor-cycle factories; not horsepower of motor cycles manufactured.

<sup>2</sup> Kentucky, 1 establishment; Michigan, 2; New Hampshire, 1; Pennsylvania, 1; Wisconsin, 3.

<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>4</sup> See Table 4.

# MOTOR VEHICLES; MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS

[Preliminary reports for these industries were issued under dates of May 11 and November 8, 1926, respectively]

The manufacture of motor vehicles and the manufacture of bodies and parts for such vehicles are treated for census purposes as separate industries. Combined statistics for these industries are presented in the table below.

**Duplication in cost of materials and value of products.**—The combined statistics for cost of materials and value of products include a great deal of duplication due to the fact that in large measure the products of the "Motor-vehicle bodies and motor-vehicle parts" industry are used as materials in the "Motor-vehicles" industry, so that the combined cost of materials greatly exceeds the cost of raw and partly manufactured materials produced outside the industries, and the combined value of products is much in excess of the total factory value of the finished products in the form in which they reach the final purchaser. (The census schedule calls for the wholesale selling value, at the factory, of products manufactured during the year.)

On the other hand, as explained elsewhere (see p. 1124), the bodies-and-parts industry does not include the manufacture of tires and certain other materials and parts, and for this reason the statistics in the table below do not show the total number of persons employed, directly or indirectly, in the manufacture of motor vehicles.

## COMBINED SUMMARY FOR MOTOR VEHICLES AND MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS INDUSTRIES, FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5. For summary statistics for the two industries separately, see Table 1, p. 1118, and Table 1, p. 1125]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages         | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--------------------------------------|--------------------------|-------------------------------|---------------|------------------------|--------------------------------|-------------------|---|------------------|
| 1925.....                            | 1,655                    | 426,110                       | \$713,931,334 | \$2,637,074            | \$2,970,913,263                | \$4,721,402,556   | \$1,750,489,293                         | 1,172,013        |
| 1923.....                            | 2,471                    | 404,886                       | 659,877,336   | 4,343,073              | 2,711,570,577                  | 4,176,440,284     | 1,464,869,707                           | 860,633          |
| 1921.....                            | 2,359                    | 212,777                       | 318,752,665   | 1,966,716              | 1,321,026,902                  | 2,079,403,508     | 758,376,606                             | ( <sup>3</sup> ) |
| 1919.....                            | 2,830                    | 343,115                       | 491,121,373   | 1,758,343              | 1,940,678,876                  | 3,080,073,979     | 1,139,395,103                           | 4 539,093        |
| 1914.....                            | 1,271                    | 127,092                       | 101,926,874   | 3,954,924              | 356,207,930                    | 632,831,474       | 276,623,544                             | 4 172,875        |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |               |                        |                                |                   |   |                  |
| 1923-1925.....                       | -33.0                    | 5.2                           | 8.2           | -39.3                  | 9.6                            | 13.0              | 19.5                                    | 36.2             |
| 1921-1923.....                       | 4.7                      | 90.3                          | 107.0         | 120.8                  | 105.3                          | 100.8             | 93.2                                    | -----            |
| 1921-1925.....                       | -29.8                    | 100.3                         | 124.0         | 34.1                   | 124.9                          | 127.1             | 130.8                                   | -----            |
| 1914-1925.....                       | 30.2                     | 235.3                         | 600.4         | -33.3                  | 734.0                          | 646.1             | 532.8                                   | 578.0            |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ somewhat from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, pp. 1120 and 1128.)

## MOTOR VEHICLES

**Description of the industry.**—The classification "Motor vehicles" applies to all manufacturing establishments whose principal products are four-wheeled motor-propelled (internal-combustion, steam, or electric) steerable vehicles, or trailers for use with such vehicles.<sup>1</sup> Establishments engaged primarily in the manufacture of motor-propelled fire-department apparatus, street sweepers, road oilers, etc., are also classified in this industry. Tractors and trailers are reported as products by some of the motor-vehicle manufacturers, but, as explained in footnote 3, Table 4, tractors are made principally by establishments classified in the "Engines and water wheels" industry.

**Importance of the industry.**—The motor-vehicle industry in 1925 outranked all other manufacturing industries, as classified for census purposes, in regard to value of products. In determining the rank according to number of wage earners, consideration must be given to the fact that the total number of wage earners employed, directly and indirectly, in the manufacture of motor vehicles is greatly in excess of the number reported for the motor-vehicle industry alone. It includes the 228,382 wage earners in the bodies-and-parts industry, together with those employed in the manufacture of motor-vehicle engines, electric starting and lighting equipment, etc., in other industries, and those employed in the manufacture of tires and inner tubes. No accurate estimate can be made of the grand total, but the combined number, 426,110, of wage earners employed in the motor-vehicles and motor-vehicle bodies-and-parts industries in 1925, exceeded the number reported for any other industry, according to the census classification, with two exceptions, namely, "Lumber and timber products, not elsewhere classified" (473,998) and "Cotton goods" (445,184).

**Decrease in number of establishments (Table 1).**—Although the output of this industry was greater in 1925 than in 1923 (see Table 4), the number of establishments reporting decreased from 351 in the earlier year to 297 in the later, this decrease having been the net result of the omission of 81 establishments which had been included in the industry for 1923 and the inclusion of 27 which had not been classified as motor-vehicle manufacturers in that year. Of the 81 establishments omitted, 52 had gone out of business, 15 were idle throughout the year 1925, 7 were not engaged in manufacturing during any part of the year, 6 had been engaged primarily in the manufacture of motor vehicles in 1923 but reported other commodities—bodies and parts, machine-shop products, and engines and water wheels, as their principal products in 1925 and were therefore classified in the appropriate industries, and 1 reported products valued at less than \$5,000. (See sec. 10, p. 5.)

**Detailed statistics of products (Table 4).**—In the total value of products of this industry there is some duplication resulting from the inclusion of the value of bodies and parts made for sale as such by establishments engaged primarily in the manufacture of motor vehicles. (Bodies and parts for sale are made mainly in the bodies-and-parts industry. (See pp. 1124 to 1131.) On the other hand, the value of the complete vehicles, chassis, etc., made during the census year was somewhat less than the net value of the output of the industry, for the reason that the latter

<sup>1</sup> The manufacture of motor cycles and bicycles is treated as a separate industry.

includes the value of bodies and parts, and especially parts, produced for sale direct to dealers or individual customers for use as additional equipment or for replacement. Moreover, the industry total includes amounts received for repair work done in factories, which may properly be considered as included in the net value of output.

The rapid increase in the popularity of the closed passenger car is brought out by a comparison of the numbers of such cars made during the last four census years—156,504 in 1919, 304,220 in 1921, 1,201,577 in 1923, and 2,080,697 in 1925. The proportion which the number of closed cars formed of the total number of passenger cars reported increased from 10 per cent in 1919 to 21.6 per cent in 1921, 35 per cent in 1923, and 58.1 per cent in 1925.

The percentages of increase in number and value between 1923 and 1925 for the several groups of motor vehicles and for chassis made for sale as such were as follows: Passenger vehicles—number, 4.3 per cent; value, 11 per cent. Government, municipal, etc.—number, 3.4 per cent; value, 4.3 per cent. Business vehicles—number, 21.4 per cent; value, 29.1 per cent. Chassis—number, 37.4 per cent; value, 19.7 per cent.

The average value of closed passenger cars decreased from \$1,281 in 1919 to \$1,082 in 1921, \$888 in 1923, and \$859 in 1925, and the average value of open passenger cars decreased from \$801 in 1919 to \$727 in 1921, \$535 in 1923, and \$469 in 1925. The extent of these decreases in average price is affected somewhat by variations in the proportions of high-priced and low-priced cars from year to year. For example: If relatively low-priced cars formed a larger proportion of the total output of the industry in 1925 than in 1923, this alone would reduce the average price, regardless of any decreases in prices of individual makes of cars.

**Motor vehicles, by value and tonnage classes.**—The following statement shows the number of passenger vehicles manufactured in 1925, grouped according to value, and the number of business vehicles, grouped according to tonnage:

| PASSENGER VEHICLES               | BUSINESS VEHICLES<br>(including motor busses, delivery wagons,<br>trucks, and business and bus chassis) |
|----------------------------------|---|
| Total number..... 3,565,945      | Total number..... <sup>1</sup> 498,364  |
| Value up to \$500..... 1,458,395 | Up to 1 ton, inclusive..... 363,483   |
| \$501 to \$800..... 1,163,061    | Over 1 to 2½ tons, inclusive. 107,582   |
| \$801 to \$1,500..... 776,148    | 3 to 4½ tons, inclusive..... 15,178   |
| \$1,501 to \$2,500..... 136,811  | 5 tons..... 9,334   |
| \$2,501 to \$3,500..... 17,526   | Over 5 tons..... 2,787  |
| \$3,501 and up..... 14,004       |   |

<sup>1</sup> Exclusive of 20 motor busses and 199 trucks reported by establishments engaged primarily in other industries.

**Annual production totals.**—The Bureau of the Census also compiles monthly statistics on the production of motor vehicles. These statistics, which are first published in the form of press releases and are later included in the Survey of Current Business, are issued as representing production, but as a matter of fact most manufacturers report factory sales instead. For this reason the annual totals of the monthly figures for a given year differ slightly from the corresponding totals shown in reports of the Biennial Census of Manufactures. The follow-

ing tabular statement presents the annual totals of the monthly figures for all years for which such figures are available:

| YEAR      | Total     | Passenger cars <sup>1</sup> | Trucks and busses <sup>2</sup> |
|-----------|-----------|-----------------------------|--------------------------------|
| 1922..... | 2,544,176 | 2,302,923                   | 241,253                        |
| 1923..... | 3,944,255 | 3,589,936                   | 354,319                        |
| 1924..... | 3,495,346 | 3,144,999                   | 350,347                        |
| 1925..... | 4,149,356 | 3,696,490                   | 452,866                        |
| 1926..... | 4,219,412 | 3,765,059                   | 454,353                        |

<sup>1</sup> Light trucks using passenger chassis are here included with passenger vehicles, but in the biennial census statistics the data for such trucks are included with those for other trucks.

<sup>2</sup> Busses are here included with trucks, but in the biennial census statistics the data for such conveyances are included with those for passenger vehicles.

**Motor-vehicle registration.**—The rapidity of the increase in the use of motor vehicles is best brought out by the annual registration figures, published by the Bureau of Public Roads, Department of Agriculture. The number of registrations during each year, however, includes some duplication due to the scrapping of motor vehicles. The number of cars or trucks scrapped or discarded within the year is included in the total number registered, but not in the total number actually in use at the end of the year. Thus, in order to determine the actual number of motor vehicles in use at the end of the year, it would be necessary to reduce the total number of registrations by subtracting from it the number of vehicles scrapped or discarded during the year. It may be assumed, however, that the variation from year to year in the extent of the duplication due to this cause is not sufficient to have any material effect on the comparability, as between one year and another, of the ratios between the number of motor vehicles and the total population.

The following statement shows the total number of registrations of four-wheeled motor vehicles during each calendar year from 1913 (the earliest year for which the registration figures have been compiled) to 1926, inclusive, together with the ratio between the number of registrations and the estimated population at the close of the year:

| YEAR      | Motor-vehicle registrations | Number of registrations to 1,000 population | YEAR      | Motor-vehicle registrations | Number of registrations to 1,000 population |
|-----------|-----------------------------|---|-----------|-----------------------------|---|
| 1913..... | 1,258,062                   | 13  | 1920..... | 9,231,941                   | 86  |
| 1914..... | 1,711,339                   | 17  | 1921..... | 10,463,295                  | 96  |
| 1915..... | 2,445,664                   | 24  | 1922..... | 12,238,375                  | 111   |
| 1916..... | 3,512,996                   | 35  | 1923..... | 15,090,936                  | 134   |
| 1917..... | 4,983,340                   | 48  | 1924..... | 17,591,981                  | 154   |
| 1918..... | 6,146,617                   | 59  | 1925..... | 19,937,274                  | 172   |
| 1919..... | 7,565,446                   | 72  | 1926..... | 22,001,393                  | 187   |

From these figures it will be seen that more than 17 times as many motor vehicles were registered in 1926 as in 1913, only 13 years earlier, and that the ratio of motor-vehicle registrations to population was more than 14 times as large for December 31, 1926, as for December 31, 1913. The ratio for 1913 (disregarding duplication due to the above-mentioned cause) represents 1 motor vehicle to about 77 persons, or 17 families; that for 1926, 1 motor vehicle to 5.4 persons, or 1.3 families.

**Comparison with preceding census year.**—The decreases shown for the motor-vehicle industry in the items of wage earners, wages, and cost of materials for 1925, as compared with 1923, are due mainly to the fact that one large establishment which had made a combined report for 1923 and had been classified in the motor-vehicle industry made two separate reports for 1925, one covering its motor-vehicle production and the other its production of motor-vehicle parts and accessories. In accordance with the usual census practice, these reports were classified in separate industries, the former in the motor-vehicle industry proper and the latter in the motor-vehicle bodies-and-parts industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages         | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horsepower <sup>3</sup> |
|--------------------------------------|--------------------------|-------------------------------|---------------|------------------------|--------------------------------|-------------------|---|-------------------------|
| 1925.....                            | 297                      | 197,728                       | \$341,210,401 | \$1,133,039            | \$2,108,191,812                | \$3,198,122,633   | \$1,089,930,821                         | 509,758                 |
| 1923.....                            | 351                      | 241,356                       | 406,730,278   | 1,961,141              | 2,147,463,352                  | 3,163,327,874     | 1,015,864,522                           | 435,545                 |
| 1921.....                            | 385                      | 143,658                       | 221,973,586   | 982,593                | 1,107,062,085                  | 1,671,386,976     | 564,324,891                             | ( <sup>4</sup> )        |
| 1919.....                            | 315                      | 210,559                       | 312,165,870   | 198,142                | 1,578,651,574                  | 2,387,903,287     | 809,251,713                             | \$ 282,323              |
| 1914.....                            | 300                      | 79,307                        | 66,934,359    | 3,768,809              | 292,597,565                    | 503,230,137       | 210,632,572                             | \$ 104,963              |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |               |                        |                                |                   |   |                         |
| 1923-1925.....                       | -15.4                    | -18.1                         | -16.1         | -42.2                  | -1.8                           | 1.1               | 7.3                                     | 17.0                    |
| 1921-1923.....                       | -8.8                     | 68.0                          | 83.2          | 99.6                   | 94.0                           | 89.3              | 80.0                                    | -----                   |
| 1921-1925.....                       | -22.9                    | 37.6                          | 53.7          | 15.3                   | 90.4                           | 91.3              | 93.1                                    | -----                   |
| 1914-1925.....                       | -1.0                     | 149.3                         | 409.8         | -69.9                  | 620.5                          | 535.5             | 417.5                                   | 385.7                   |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Horsepower of prime movers in motor-vehicle factories; *not* horsepower of motor vehicles manufactured.

<sup>4</sup> Not called for on schedule.

<sup>5</sup> These figures differ somewhat from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1120.)



TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 6, p. 1123]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |         |         |         |         |
|-------------------------|-------------------------------------|--|----------|---------|---------|---------|---------|
|                         |                                     | January  | February | March   | April   | May     | June    |
| United States:          |                                     |  |          |         |         |         |         |
| 1925 <sup>1</sup> ..... | 197,728                             | <i>167,088</i>   | 170,084  | 184,952 | 200,398 | 202,966 | 198,924 |
| 1923 <sup>1</sup> ..... | 241,356                             | <i>216,383</i>   | 231,133  | 242,705 | 254,322 | 258,111 | 255,020 |
| 1921 <sup>1</sup> ..... | 143,658                             | <i>81,125</i>  | 103,939  | 125,914 | 156,731 | 185,638 | 159,656 |
| 1919 <sup>1</sup> ..... | 210,559                             | <i>174,634</i>   | 179,147  | 185,578 | 195,198 | 194,976 | 206,009 |
| California.....         | 3,213                               | 2,481  | 2,528    | 2,790   | 2,875   | 2,849   | 2,919   |
| Illinois.....           | 5,525                               | 4,742  | 4,913    | 4,909   | 5,299   | 5,757   | 5,554   |
| Indiana.....            | 18,326                              | 17,527   | 17,042   | 17,556  | 19,299  | 20,043  | 19,367  |
| Massachusetts.....      | 1,543                               | 1,376  | 1,414    | 1,570   | 1,696   | 1,661   | 1,470   |
| Michigan.....           | 99,895                              | 85,248   | 84,976   | 92,929  | 98,911  | 99,119  | 99,793  |
| Missouri.....           | 3,692                               | 2,949  | 3,164    | 3,297   | 3,461   | 3,479   | 3,604   |
| New Jersey.....         | 4,847                               | 4,094  | 4,008    | 4,104   | 4,924   | 5,474   | 5,227   |
| New York.....           | 9,685                               | 8,012  | 8,497    | 10,121  | 11,109  | 11,208  | 10,676  |
| Ohio.....               | 22,189                              | 18,856   | 20,327   | 23,056  | 25,012  | 25,551  | 22,421  |
| Pennsylvania.....       | 5,810                               | 4,826  | 5,234    | 5,499   | 5,749   | 5,952   | 5,864   |
| Wisconsin.....          | 8,509                               | 6,720  | 7,235    | 7,707   | 8,641   | 8,699   | 8,767   |

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |         |           |         |          |          |
|-------------------------|--|---------|-----------|---------|----------|----------|
|                         | July   | August  | September | October | November | December |
| United States:          |  |         |           |         |          |          |
| 1925 <sup>1</sup> ..... | 199,092  | 197,807 | 211,436   | 220,384 | 215,162  | 204,444  |
| 1923 <sup>1</sup> ..... | 244,734  | 243,567 | 244,134   | 239,566 | 236,781  | 229,811  |
| 1921 <sup>1</sup> ..... | 159,534  | 158,144 | 158,902   | 159,810 | 151,633  | 142,878  |
| 1919 <sup>1</sup> ..... | 217,805  | 224,854 | 231,115   | 236,240 | 239,443  | 241,709  |
| California.....         | 3,019  | 2,903   | 3,123     | 4,320   | 4,929    | 3,817    |
| Illinois.....           | 5,359  | 4,956   | 5,238     | 6,398   | 6,597    | 6,574    |
| Indiana.....            | 18,709   | 18,184  | 18,446    | 18,427  | 17,820   | 17,490   |
| Massachusetts.....      | 1,453  | 1,133   | 1,624     | 1,687   | 1,707    | 1,730    |
| Michigan.....           | 103,473  | 107,064 | 109,090   | 108,498 | 105,281  | 104,355  |
| Missouri.....           | 3,622  | 3,535   | 4,267     | 4,769   | 4,488    | 3,670    |
| New Jersey.....         | 4,863  | 4,497   | 4,586     | 5,490   | 5,757    | 5,146    |
| New York.....           | 9,968  | 9,421   | 9,676     | 9,444   | 9,187    | 8,905    |
| Ohio.....               | 20,824   | 18,909  | 22,044    | 24,793  | 24,032   | 20,447   |
| Pennsylvania.....       | 5,797  | 5,687   | 6,150     | 6,590   | 6,340    | 6,034    |
| Wisconsin.....          | 8,773  | 9,228   | 10,001    | 9,870   | 8,516    | 7,957    |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 75.8; 1923, 83.8; 1921, 49; 1919, 72.2.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                        | 1923    |                               | 1919              |                              |
|---|---------|------------------------|---------|-------------------------------|-------------------|------------------------------|
|   | Num-ber | Horse-power            | Num-ber | Horse-power                   | Num-ber           | Horse-power                  |
| Prime movers, total.....                                    | 40, 597 | 509, 758               | 26, 428 | 435, 545                      | 14, 498           | 1 282, 323                   |
| Steam engines.....  | 185     | 46, 288                | 224     | 134, 805                      | { 170<br>24<br>21 | { 45, 423<br>59, 109<br>861  |
| Steam turbines.....   | 101     | 122, 192               |         |                               |                   |                              |
| Internal-combustion engines.....                            | 12      | 410                    | 27      | 36, 502                       |                   |                              |
| Water wheels and turbines.....                              |         |                        |         |                               |                   |                              |
| Electric motors driven by purchased current.....            | 40, 299 | 340, 868               | 26, 177 | 264, 238                      | 14, 283           | 176, 930                     |
| Electric motors, total.....                                 | 62, 483 | 517, 920               | 49, 509 | 409, 048                      | 25, 702           | 270, 356                     |
| Driven by purchased current.....                            | 40, 299 | 340, 868               | 26, 177 | 264, 238                      | 14, 283           | 176, 930                     |
| Driven by current generated in establishment reporting..... | 22, 184 | 177, 052<br>Kilo-watts | 23, 332 | 144, 810<br>Kilo-watts<br>(2) | 11, 419           | 93, 426<br>Kilo-watts<br>(2) |
| Electric generators.....                                    | 1, 907  | 127, 473               | (2)     |                               | (2)               |                              |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1919 TO 1925

| SOURCE AND CLASS   | 1925        | 1923        | 1921        | 1919        |
|--|-------------|-------------|-------------|-------------|
| SOURCE   | NUMBER      |             |             |             |
| Complete vehicles, chassis, trailers, and tractors, total.....                             | 4, 178, 247 | 3, 902, 371 | 1, 603, 067 | 1, 893, 151 |
| Made in "Motor-vehicles" industry.....   | 4, 176, 519 | 3, 901, 986 | 1, 602, 336 | 1, 888, 059 |
| Made as secondary products in "Motor-vehicle bodies and motor-vehicle parts" industry..... | 509         | 269         | 369         | 432         |
| Made as secondary products in other industries (not including tractors).....               | 1, 219      | 116         | 362         | 4, 660      |
| CLASS  |             |             |             |             |
| Passenger vehicles (complete).....   | 3, 581, 240 | 3, 432, 308 | 1, 406, 257 | 1, 559, 357 |
| Open.....  | 1, 485, 248 | 2, 215, 144 | 1, 099, 586 | 1, 399, 760 |
| Touring.....   | 1, 095, 186 | 1, 782, 992 | 903, 009    | 1, 226, 127 |
| Roadsters, runabouts, and sport (speedsters).....  | 390, 062    | 432, 152    | 196, 577    | 173, 633    |
| Closed.....  | 2, 080, 697 | 1, 201, 577 | 304, 220    | 156, 504    |
| Public conveyances (motor busses, taxicabs, etc.).....                                     | 15, 295     | 12, 878     | 2, 253      | 1, 877      |
| All other.....   |             | 2, 709      | 198         | 1, 216      |
| Government, municipal, etc. (complete).....  | 1, 233      | 1, 192      | 1, 131      | 2, 786      |
| Ambulances.....  | 129         | 197         | 134         | 391         |
| Fire-department apparatus.....   | 1, 020      | 910         | 815         | 759         |
| All other (patrol wagons, street sprinklers, sweepers, etc.).....                          | 84          | 85          | 182         | 1, 636      |
| Business vehicles (complete).....  | 341, 811    | 281, 477    | 105, 857    | 121, 773    |
| Delivery wagons.....   | 35, 976     | 28, 042     | 15, 085     | 18, 122     |
| Trucks.....  | 303, 824    | 252, 563    | 90, 253     | 102, 437    |
| Hearse and undertakers' wagons.....  | 2, 011      | 872         | 519         | 587         |
| All other.....   |             |             |             | 627         |
| Chassis.....   | 240, 790    | 175, 273    | 79, 325     | 192, 440    |
| Passenger, not including bus chassis.....  | 87, 780     | 53, 256     | 38, 823     | (1)         |
| Business, including bus chassis.....   | 153, 010    | 122, 017    | 40, 502     | (1)         |
| Trailers.....  | 12, 823     | 11, 460     | 3, 769      | 15, 686     |
| Tractors <sup>2</sup> .....  | 350         | 661         | 6, 728      | 1, 109      |

See footnotes at end of table

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES, 1919 to 1925—Continued

| SOURCE AND CLASS   | 1925               | 1923               | 1921               | 1919               |
|--|--------------------|--------------------|--------------------|--------------------|
| SOURCE   | VALUE              |                    |                    |                    |
| Total production of the industry and secondary products from other industries, value.....  | \$3, 198, 852, 443 | \$3, 163, 749, 055 | \$1, 672, 064, 326 | \$2, 395, 970, 849 |
| Complete vehicles, chassis, trailers, and tractors.....  | 2, 952, 650, 573   | 2, 617, 206, 413   | 1, 332, 052, 528   | 1, 745, 405, 656   |
| Made in "Motor-vehicles" industry <sup>1</sup> .....   | 2, 951, 920, 763   | 2, 616, 785, 232   | 1, 331, 375, 178   | 1, 737, 338, 094   |
| Made as secondary products in "Motor-vehicle bodies and motor-vehicle parts" industry.....                                       | 325, 840           | 133, 653           | 223, 792           | 125, 305           |
| Made as secondary products in other industries (not including tractors).....   | 403, 970           | 287, 528           | 453, 558           | 7, 942, 257        |
| All other products of "Motor-vehicles" industry, including bodies and parts and repair work done in factories <sup>2</sup> ..... | 246, 201, 870      | 546, 542, 642      | 340, 011, 798      | 650, 565, 193      |
| CLASS  |                    |                    |                    |                    |
| Passenger vehicles (complete).....   | 2, 527, 575, 450   | 2, 277, 777, 450   | 1, 134, 360, 475   | 1, 327, 559, 123   |
| Open.....  | 697, 051, 241      | 1, 183, 995, 749   | 799, 121, 315      | 1, 121, 877, 503   |
| Touring.....   | 516, 206, 235      | 962, 097, 097      | 678, 726, 936      | 980, 987, 982      |
| Roadsters, runabouts, and sport (speedsters).....  | 180, 845, 006      | 221, 898, 652      | 120, 394, 379      | 140, 889, 521      |
| Closed.....  | 1, 786, 834, 065   | 1, 066, 838, 433   | 329, 144, 127      | 200, 525, 718      |
| Public conveyances (motor busses, taxicabs, etc.).....   | 43, 690, 144       | 24, 667, 251       | 5, 754, 659        | 3, 100, 447        |
| All other.....   |                    | 2, 276, 017        | 340, 374           | 2, 055, 455        |
| Government, municipal, etc. (complete)....   | 10, 486, 237       | 10, 051, 776       | 9, 457, 826        | 13, 619, 331       |
| Ambulances.....  | 527, 679           | 820, 209           | 556, 617           | 613, 664           |
| Fire-department apparatus.....   | 9, 588, 982        | 8, 720, 787        | 8, 529, 970        | 6, 938, 822        |
| All other (patrol wagons, street sprinklers, sweepers, etc.).....  | 369, 606           | 510, 780           | 371, 239           | 6, 066, 845        |
| Business vehicles (complete).....  | 287, 243, 212      | 222, 419, 517      | 99, 008, 613       | 213, 703, 042      |
| Delivery wagons.....   | 24, 080, 170       | 17, 139, 399       | 10, 657, 773       | 16, 570, 473       |
| Trucks.....  | 257, 803, 815      | 202, 722, 744      | 86, 351, 023       | 194, 166, 484      |
| Hearses and undertakers' wagons.....   | 5, 359, 227        | 2, 557, 374        | 1, 999, 817        | 1, 750, 662        |
| All other.....   |                    |                    |                    | 1, 215, 423        |
| Chassis.....   | 121, 516, 283      | 101, 486, 215      | 83, 292, 748       | 181, 936, 739      |
| Passenger, not including bus chassis.....  | 39, 919, 444       | 25, 121, 181       | 18, 805, 150       | ( <sup>3</sup> )   |
| Business, including bus chassis.....   | 81, 596, 839       | 76, 365, 034       | 64, 487, 598       | ( <sup>3</sup> )   |
| Trailers.....  | 4, 937, 006        | 4, 366, 722        | 2, 074, 679        | 6, 633, 668        |
| Tractors <sup>3</sup> .....  | 892, 355           | 1, 104, 733        | 3, 858, 187        | 1, 953, 753        |
| All other products of "Motor-vehicles" industry, including bodies and parts and repair work done in factories.....               | 246, 201, 870      | 546, 542, 642      | 340, 011, 798      | 650, 565, 193      |

<sup>1</sup> Not reported separately.<sup>2</sup> Tractors are manufactured mainly by establishments classified in the "Engines and water wheels" industry. The total production of tractors (not including steam traction engines) in 1925, 1923, and 1921, by all establishments reporting their manufacture, regardless of the industry classification, was as follows: 1925, 168,299, valued at \$103,900,262; 1923, 140,157, valued at \$78,165,298; 1921, 73,198, valued at \$50,294,737.<sup>3</sup> The sum of the values of these two items is the total value of products of the motor-vehicle industry.

TABLE 5.—PASSENGER VEHICLES, BY CLASS, NUMBER, AND VALUE, AND TRUCKS, BY NUMBER AND VALUE, FOR SELECTED STATES: 1925, 1923, AND 1921

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. In the cases of certain classes of products, however, some of the "All other States" outranked some of those shown separately]

| CLASS AND STATE  | NUMBER    |           |           | VALUE           |                 |                 |
|--|-----------|-----------|-----------|-----------------|-----------------|-----------------|
|  | 1925      | 1923      | 1921      | 1925            | 1923            | 1921            |
| Passenger vehicles, total.....                             | 3,581,240 | 3,432,308 | 1,406,257 | \$2,527,575,450 | \$2,277,777,450 | \$1,134,360,475 |
| Touring cars, total.....                                   | 1,095,186 | 1,782,992 | 903,009   | 516,206,235     | 962,097,097     | 678,726,936     |
| California.....  | 54,043    | (1)       | (1)       | 24,459,943      | (1)             | (1)             |
| Indiana.....   | 41,345    | 100,501   | 62,992    | 29,433,155      | 65,655,692      | 64,465,351      |
| Michigan.....  | 212,954   | 477,642   | 308,128   | 159,476,828     | 399,322,273     | 316,329,838     |
| Missouri.....  | 106,779   | 153,725   | 66,827    | 36,680,363      | 61,010,294      | 32,865,999      |
| New Jersey.....  | 83,740    | (1)       | (1)       | 31,147,258      | (1)             | (1)             |
| New York.....  | 61,394    | 105,002   | 43,065    | 26,427,512      | 46,552,169      | 29,918,678      |
| Ohio.....  | 108,860   | 232,814   | 97,184    | 48,133,763      | 111,957,568     | 63,160,431      |
| Wisconsin.....   | 39,764    | 78,788    | 38,095    | 20,549,700      | 43,852,080      | 29,877,749      |
| All other States.....                                      | 386,307   | 634,520   | 286,718   | 139,897,713     | 233,747,021     | 142,108,890     |
| Roadsters and runabouts and sport (speedsters), total..... | 390,062   | 432,152   | 196,577   | 180,845,006     | 221,898,652     | 120,394,379     |
| California.....  | 25,361    | 18,698    | (1)       | 10,083,955      | 6,637,223       | (1)             |
| Indiana.....   | 15,312    | 19,419    | 8,033     | 9,871,860       | 13,229,346      | 5,433,444       |
| Michigan.....  | 73,772    | 105,573   | 48,802    | 57,129,521      | 92,073,429      | 49,071,149      |
| Missouri.....  | 39,995    | 35,159    | 17,431    | 13,373,207      | 11,862,348      | 7,215,800       |
| New York.....  | 15,067    | 18,062    | 8,915     | 8,335,180       | 6,760,790       | 4,804,227       |
| Ohio.....  | 31,608    | 35,129    | 18,789    | 14,240,215      | 14,080,980      | 11,674,580      |
| Wisconsin.....   | 16,798    | 22,534    | 8,803     | 10,132,553      | 14,572,344      | 5,166,287       |
| All other States.....                                      | 172,149   | 177,578   | 85,804    | 57,678,515      | 62,681,692      | 37,028,892      |
| Public conveyances <sup>2</sup> .....                      | 15,295    | 12,878    | 2,253     | 43,690,144      | 24,667,251      | 5,754,659       |
| Indiana.....   | 1,784     | (1)       | (1)       | 4,572,704       | (1)             | (1)             |
| Michigan.....  | 2,424     | 3,214     | (1)       | 6,774,361       | 6,899,304       | (1)             |
| Ohio.....  | 1,156     | (1)       | (1)       | 4,993,177       | (1)             | (1)             |
| All other States.....                                      | 9,931     | 9,664     | 2,253     | 27,849,902      | 17,767,947      | 5,754,659       |
| Closed cars, total.....                                    | 2,080,697 | 1,201,577 | 304,220   | 1,786,834,065   | 1,066,838,433   | 329,144,127     |
| California.....  | 46,994    | 35,172    | (1)       | 27,182,170      | 20,047,309      | (1)             |
| Indiana.....   | 82,394    | 54,736    | 21,478    | 84,956,140      | 53,899,013      | 29,742,652      |
| Michigan.....  | 990,568   | 422,005   | 83,888    | 1,029,702,801   | 521,781,499     | 133,322,554     |
| Missouri.....  | 95,661    | 88,179    | 19,860    | 53,102,491      | 50,953,762      | 10,140,602      |
| New York.....  | 100,812   | 88,152    | 21,295    | 78,022,063      | 72,017,096      | 30,065,677      |
| Ohio.....  | 263,087   | 138,011   | 29,673    | 199,298,496     | 120,898,806     | 34,353,167      |
| Wisconsin.....   | 132,691   | 54,822    | 12,444    | 109,787,191     | 46,198,726      | 11,224,557      |
| All other States.....                                      | 368,490   | 320,500   | 115,582   | 204,782,713     | 181,042,222     | 80,294,918      |
| All other, total.....                                      | -----     | 2,709     | 198       | -----           | 2,276,017       | 340,374         |
| Business vehicles, total <sup>3</sup> .....                | 341,811   | 281,477   | 105,857   | 287,243,212     | 222,419,517     | 99,008,613      |
| California.....  | 7,442     | 5,658     | 4,408     | 6,244,846       | 7,216,502       | 2,875,430       |
| Illinois.....  | 8,464     | 12,755    | 6,390     | 11,344,427      | 10,970,421      | 5,178,181       |
| Indiana.....   | 22,885    | 12,844    | 5,143     | 20,962,731      | 7,514,636       | 4,860,302       |
| Michigan.....  | 125,542   | 67,080    | 32,465    | 110,436,329     | 48,485,433      | 30,350,307      |
| Missouri.....  | 13,918    | 16,612    | 6,488     | 5,679,880       | 6,971,632       | 3,662,016       |
| New Jersey.....  | 11,335    | (1)       | (1)       | 6,235,594       | (1)             | (1)             |
| New York.....  | 13,114    | 20,719    | 8,224     | 11,352,218      | 20,417,771      | 9,993,691       |
| Ohio.....  | 38,736    | 43,183    | 7,521     | 50,431,447      | 66,010,454      | 8,385,900       |
| Pennsylvania.....  | 13,387    | 24,459    | 12,343    | 25,929,225      | 23,171,485      | 16,546,184      |
| Wisconsin.....   | 5,783     | 4,444     | 3,934     | 5,670,243       | 5,265,309       | 6,073,387       |
| All other States.....                                      | 81,205    | 73,723    | 18,941    | 32,956,272      | 26,395,824      | 11,083,215      |

<sup>1</sup> Combined with "All other States" to avoid disclosing operations of individual establishments.

<sup>2</sup> Includes "Motor busses," "Taxicabs," etc.

<sup>3</sup> Includes "Trucks," "Delivery wagons," and "Undertakers' wagons."

TABLE 6.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horsepower <sup>1</sup> |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |                         |
| United States.....                  | 297                      | 225,584                         | 27                           | * 27,829                        | 197,728                       | 509,753                 |
| California.....                     | 24                       | 3,945                           | 6                            | 726                             | 3,213                         | 4,561                   |
| Illinois.....                       | 25                       | 6,729                           | 2                            | 1,202                           | 5,525                         | 7,565                   |
| Indiana.....                        | 25                       | 20,340                          | 2                            | 2,012                           | 18,326                        | 38,405                  |
| Massachusetts.....                  | 9                        | 2,096                           | 3                            | 550                             | 1,543                         | 1,953                   |
| Michigan.....                       | 48                       | 111,614                         | 5                            | 11,914                          | 99,895                        | 281,778                 |
| Missouri.....                       | 11                       | 4,294                           | -----                        | 602                             | 3,692                         | 4,963                   |
| New Jersey.....                     | 10                       | 5,536                           | -----                        | 689                             | 4,847                         | 13,470                  |
| New York.....                       | 24                       | 11,998                          | -----                        | 2,313                           | 9,685                         | 30,820                  |
| Ohio.....                           | 38                       | 25,614                          | 2                            | 3,423                           | 22,189                        | 57,750                  |
| Pennsylvania.....                   | 18                       | 7,012                           | 3                            | 1,199                           | 5,810                         | 9,683                   |
| Wisconsin.....                      | 16                       | 9,741                           | -----                        | 1,232                           | 8,509                         | 25,623                  |
| All other States <sup>2</sup> ..... | 49                       | 16,465                          | 4                            | 1,967                           | 14,494                        | 33,187                  |

  

| STATE                               | Salaries       | Wages         | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>4</sup> |
|-------------------------------------|----------------|---------------|------------------------|-------------------|-------------------|---|
| United States.....                  | * \$70,505,007 | \$341,210,401 | \$1,133,039            | \$2,108,191,812   | * \$3,198,122,633 | \$1,089,930,821                         |
| California.....                     | 1,740,440      | 5,150,772     | 5,205                  | 56,333,738        | 78,442,568        | 22,108,830                              |
| Illinois.....                       | 2,742,877      | 8,549,619     | 28,649                 | 52,134,974        | 80,622,380        | 28,487,406                              |
| Indiana.....                        | 4,726,074      | 29,075,127    | -----                  | 118,854,266       | 179,510,952       | 60,656,686                              |
| Massachusetts.....                  | 1,293,020      | 2,557,888     | -----                  | 17,638,009        | 30,819,201        | 13,181,192                              |
| Michigan.....                       | 33,422,032     | 180,489,828   | 347,662                | 953,628,655       | 1,520,296,128     | 566,667,413                             |
| Missouri.....                       | 1,415,083      | 6,234,279     | -----                  | 92,453,916        | 113,130,501       | 20,676,585                              |
| New Jersey.....                     | 1,668,722      | 8,372,738     | -----                  | 70,039,068        | 101,519,589       | 31,480,521                              |
| New York.....                       | 5,215,864      | 15,811,526    | 38,679                 | 108,324,503       | 155,647,161       | 47,322,658                              |
| Ohio.....                           | 8,578,840      | 38,458,271    | 700,156                | 253,733,782       | 364,995,476       | 111,261,694                             |
| Pennsylvania.....                   | 2,515,041      | 9,098,390     | 250                    | 69,609,939        | 98,133,618        | 28,523,679                              |
| Wisconsin.....                      | 2,657,019      | 14,016,689    | 8,938                  | 105,719,900       | 155,944,670       | 50,224,770                              |
| All other States <sup>3</sup> ..... | 4,529,995      | 23,395,274    | 3,500                  | 209,721,062       | 319,060,389       | 109,339,527                             |

<sup>1</sup> Horsepower of prime movers in motor-vehicle factories; *not* horsepower of motor vehicles manufactured.

<sup>2</sup> Not including 654 salaried officers and employees of central administrative offices, with salaries aggregating \$2,835,330. For purposes of comparison with the statistics published for earlier years, these figures should be added to those given in the table, making combined totals of 28,488 salaried officers and employees and \$73,390,337. (See "Central-administrative-office employees," p. 1193.)

<sup>3</sup> Arkansas, 1 establishment; Colorado, 2; Connecticut, 4; Delaware, 1; District of Columbia, 1; Florida, 1; Georgia, 1; Iowa, 4; Kansas, 2; Kentucky, 2; Louisiana, 2; Maine, 1; Maryland, 2; Minnesota, 4; Mississippi, 1; Nebraska, 2; New Hampshire, 1; North Carolina, 2; Oklahoma, 2; Oregon, 1; Tennessee, 2; Texas, 5; Virginia, 1; Washington, 4.

<sup>4</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>5</sup> See first 5 lines, Table 4.

## MOTOR-VEHICLE BODIES AND MOTOR-VEHICLE PARTS

**Description of the industry.**—The establishments classified in this industry are those engaged primarily in the manufacture, for sale as such (or for transfer to motor-vehicle manufacturing establishments located elsewhere, but operated under the same ownership), of motor-vehicle bodies, tops, gears (transmission, differential, timer, and steering), rims, frames, wheels, radiators, windshields, axles, bumpers, shock absorbers, sheet metal for automobiles (such as fenders, dust shields, hoods, or bonnets), and various other assemblies *except complete chassis*, and parts. The manufacture of certain other assemblies or parts, of which the most important are engines, motors for electric vehicles, tires, springs, ignition apparatus, batteries, and starting and lighting systems,<sup>1</sup> is not, however, included in this industry. Where a manufacturer makes various motor-vehicle parts in his main plant and assembles them into complete vehicles at branches, the main plant, with its wage earners, is classified in the bodies and parts industry and the branches in the motor-vehicle industry. Similarly, if a manufacturer builds bodies in one plant and installs them on chassis in another factory, the first plant is classified in the bodies-and-parts industry and the second in the motor-vehicle industry.

Where all the parts, including the bodies, are made and assembled in the same plant, the entire plant is classified in the motor-vehicle industry proper and no separate report is made covering the manufacture of the bodies and parts.

**Comparability of statistics for earlier years.**—The census of manufactures for 1925 was the first at which a special schedule calling for detailed data on products was used for this industry. For this reason no comparable statistics in regard to numbers and values of individual classes or kinds of products are available for earlier years.

The comparability of the figures for different census years for the motor-vehicle bodies-and-parts industry, as given in Tables 1, 2, and 3, is also affected by the fact that one large establishment which had made a combined report for 1923 and had been classified in the motor-vehicle industry made two separate reports for 1925, one for motor-vehicle production and the other for the production of parts and accessories. (See "Comparison with preceding census year," p. 1118.) This has necessarily resulted in an exaggeration of the increases in the bodies-and-parts industry between 1923 and 1925.

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<sup>1</sup> Establishments engaged primarily in the manufacture of engines, tires, and springs, for sale as such, are classified, respectively, under "Engines and water wheels," "Rubber tires and inner tubes," and "Springs, steel: Railway, vehicle, heavy machine, etc., not made in rolling mills"; and those making motors for electric automobiles or ignition apparatus, batteries, or starting and lighting systems for gasoline automobiles as their products of chief value are classified under "Electrical machinery, apparatus, and supplies."

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages         | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power          |
|--------------------------------------|--------------------------|-------------------------------|---------------|------------------------|--------------------------------|-------------------|---|----------------------|
| 1925.....                            | 1,358                    | 228,382                       | \$372,720,933 | \$1,504,035            | \$862,721,451                  | \$1,523,279,923   | \$660,558,472                           | 662,255              |
| 1923.....                            | 2,120                    | 163,530                       | 253,147,058   | 2,381,932              | 554,107,225                    | 1,013,112,410     | 449,005,185                             | 425,088              |
| 1921.....                            | 1,974                    | 69,119                        | 96,779,079    | 984,123                | 213,964,817                    | 408,016,532       | 194,051,715                             | ( <sup>3</sup> )     |
| 1919.....                            | 2,515                    | 132,556                       | 178,955,503   | 1,560,201              | 362,027,302                    | 692,170,692       | 330,143,390                             | <sup>4</sup> 256,770 |
| 1914.....                            | 971                      | 47,785                        | 34,922,515    | 186,115                | 63,610,365                     | 129,601,337       | 65,990,972                              | <sup>4</sup> 67,912  |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |               |                        |                                |                   |   |                      |
| 1923-1925.....                       | -35.9                    | 39.7                          | 47.2          | -36.9                  | 52.9                           | 50.4              | 47.1                                    | 55.8                 |
| 1921-1923.....                       | 7.4                      | 136.6                         | 161.6         | 142.0                  | 163.6                          | 148.3             | 131.4                                   | -----                |
| 1921-1925.....                       | -31.2                    | 230.4                         | 285.1         | 52.8                   | 303.2                          | 273.3             | 240.4                                   | -----                |
| 1914-1925.....                       | 39.9                     | 377.9                         | 965.1         | 708.1                  | ( <sup>5</sup> )               | ( <sup>5</sup> )  | 901.0                                   | 875.2                |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)<sup>3</sup> Not called for on schedule.<sup>4</sup> These figures differ somewhat from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1128.)<sup>5</sup> Not shown where percentage is higher than 1,000.

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1130]

| STATE                   | Average<br>number<br>em-<br>ployed<br>during<br>year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE<br>NEAREST REPRESENTATIVE DAY |               |         |         |         |         |
|-------------------------|--|---|---------------|---------|---------|---------|---------|
|                         |  | Janu-<br>ary  | Febru-<br>ary | March   | April   | May     | June    |
| United States:          |  |   |               |         |         |         |         |
| 1925 <sup>1</sup> ..... | 228,382  | 190,562   | 196,151       | 208,660 | 224,970 | 235,470 | 226,991 |
| 1923 <sup>1</sup> ..... | 163,530  | 145,389   | 156,635       | 167,285 | 169,889 | 172,580 | 169,594 |
| 1921 <sup>1</sup> ..... | 69,119   | 45,158  | 49,686        | 60,711  | 74,518  | 79,383  | 74,486  |
| 1919 <sup>1</sup> ..... | 132,556  | 108,857   | 110,025       | 115,005 | 119,577 | 122,523 | 125,788 |
| Alabama.....            | 9  | 13  | 13            | 6       | 6       | 8       | 8       |
| Arkansas.....           | 301  | 291   | 278           | 317     | 328     | 327     | 308     |
| California.....         | 2,093  | 1,608   | 1,727         | 2,100   | 2,299   | 2,374   | 2,270   |
| Colorado.....           | 110  | 93  | 105           | 115     | 122     | 133     | 132     |
| Connecticut.....        | 1,109  | 1,032   | 1,053         | 1,053   | 1,047   | 1,111   | 1,124   |
| Florida.....            | 78   | 69  | 66            | 71      | 74      | 74      | 75      |
| Georgia.....            | 63   | 61  | 61            | 62      | 65      | 62      | 63      |
| Illinois.....           | 5,038  | 4,453   | 4,485         | 4,817   | 5,289   | 5,239   | 5,010   |
| Indiana.....            | 9,700  | 8,465   | 8,358         | 8,691   | 8,987   | 9,482   | 9,452   |
| Iowa.....               | 355  | 331   | 323           | 332     | 369     | 353     | 353     |
| Kansas.....             | 76   | 64  | 65            | 77      | 91      | 81      | 82      |
| Kentucky.....           | 453  | 416   | 435           | 586     | 590     | 685     | 420     |
| Louisiana.....          | 54   | 49  | 49            | 54      | 54      | 55      | 54      |
| Maine.....              | 12   | 9   | 10            | 12      | 13      | 14      | 13      |
| Maryland.....           | 176  | 170   | 169           | 173     | 173     | 179     | 183     |
| Massachusetts.....      | 4,676  | 3,925   | 4,040         | 4,037   | 4,127   | 4,413   | 4,862   |
| Michigan.....           | 134,597  | 111,877   | 113,846       | 120,161 | 130,005 | 137,626 | 132,309 |
| Minnesota.....          | 294  | 324   | 313           | 302     | 310     | 305     | 296     |
| Mississippi.....        | 80   | 93  | 117           | 177     | 131     | 121     | 58      |
| Missouri.....           | 2,135  | 1,339   | 1,797         | 2,259   | 2,395   | 2,549   | 2,383   |
| Nebraska.....           | 118  | 92  | 111           | 116     | 101     | 137     | 118     |
| New Jersey.....         | 5,375  | 3,898   | 4,114         | 4,572   | 5,573   | 6,350   | 5,954   |
| New York.....           | 16,327   | 13,342  | 14,464        | 15,936  | 17,386  | 18,156  | 17,219  |
| North Carolina.....     | 248  | 184   | 189           | 198     | 225     | 243     | 258     |
| Ohio.....               | 21,602   | 18,433  | 19,524        | 21,003  | 22,824  | 22,602  | 21,577  |
| Oklahoma.....           | 6  | 6   | 5             | 5       | 6       | 6       | 7       |
| Oregon.....             | 64   | 60  | 64            | 65      | 64      | 65      | 62      |
| Pennsylvania.....       | 13,119   | 11,573  | 11,461        | 12,155  | 12,681  | 13,247  | 13,262  |
| Rhode Island.....       | 344  | 298   | 332           | 342     | 332     | 307     | 313     |
| Tennessee.....          | 1,111  | 1,078   | 1,066         | 1,113   | 1,152   | 1,178   | 1,149   |
| Texas.....              | 324  | 328   | 343           | 336     | 354     | 340     | 336     |
| Utah.....               | 15   | 12  | 13            | 13      | 16      | 16      | 17      |
| Virginia.....           | 193  | 178   | 172           | 155     | 176     | 189     | 186     |
| Washington.....         | 172  | 147   | 154           | 155     | 173     | 179     | 174     |
| West Virginia.....      | 40   | 43  | 47            | 49      | 52      | 52      | 46      |
| Wisconsin.....          | 7,830  | 6,088   | 6,691         | 6,945   | 7,289   | 7,125   | 6,789   |

See footnote at end of table



TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE<br>NEAREST REPRESENTATIVE DAY |          |                |              |               |               |
|-------------------------|---|----------|----------------|--------------|---------------|---------------|
|                         | July  | August   | Septem-<br>ber | Octo-<br>ber | Novem-<br>ber | Decem-<br>ber |
| United States:          |   |          |                |              |               |               |
| 1925 <sup>1</sup> ..... | 227, 727  | 230, 718 | 246, 847       | 256, 117     | 253, 688      | 242, 695      |
| 1923 <sup>1</sup> ..... | 166, 870  | 165, 816 | 159, 936       | 164, 399     | 163, 222      | 160, 797      |
| 1921 <sup>1</sup> ..... | 74, 805   | 77, 446  | 75, 921        | 73, 486      | 74, 301       | 69, 550       |
| 1919 <sup>1</sup> ..... | 133, 941  | 140, 420 | 147, 169       | 153, 034     | 156, 998      | 157, 335      |
| Alabama.....            | 8   | 12       | 8              | 8            | 12            | 12            |
| Arkansas.....           | 299   | 302      | 294            | 292          | 290           | 283           |
| California.....         | 2, 204  | 2, 095   | 2, 213         | 2, 218       | 2, 195        | 1, 809        |
| Colorado.....           | 115   | 113      | 106            | 103          | 100           | 87            |
| Connecticut.....        | 1, 135  | 1, 043   | 1, 065         | 1, 154       | 1, 227        | 1, 260        |
| Florida.....            | 77  | 80       | 83             | 86           | 89            | 89            |
| Georgia.....            | 61  | 64       | 63             | 63           | 65            | 65            |
| Illinois.....           | 4, 872  | 4, 953   | 5, 084         | 5, 440       | 5, 571        | 5, 245        |
| Indiana.....            | 10, 314   | 10, 232  | 10, 455        | 11, 047      | 10, 974       | 9, 947        |
| Iowa.....               | 367   | 363      | 383            | 366          | 371           | 353           |
| Kansas.....             | 86  | 71       | 79             | 79           | 86            | 50            |
| Kentucky.....           | 252   | 263      | 357            | 559          | 467           | 409           |
| Louisiana.....          | 53  | 51       | 51             | 58           | 58            | 58            |
| Maine.....              | 12  | 13       | 13             | 14           | 10            | 8             |
| Maryland.....           | 179   | 175      | 175            | 179          | 181           | 178           |
| Massachusetts.....      | 4, 773  | 5, 036   | 5, 385         | 5, 387       | 5, 156        | 4, 971        |
| Michigan.....           | 133, 431  | 134, 899 | 148, 145       | 153, 743     | 152, 826      | 146, 294      |
| Minnesota.....          | 268   | 288      | 272            | 270          | 274           | 302           |
| Mississippi.....        | 52  | 51       | 51             | 46           | 33            | 33            |
| Missouri.....           | 2, 278  | 2, 207   | 2, 158         | 2, 215       | 1, 992        | 2, 055        |
| Nebraska.....           | 136   | 146      | 120            | 112          | 117           | 113           |
| New Jersey.....         | 5, 240  | 5, 062   | 5, 821         | 5, 893       | 5, 793        | 6, 226        |
| New York.....           | 16, 018   | 16, 343  | 16, 656        | 17, 096      | 17, 322       | 15, 984       |
| North Carolina.....     | 270   | 284      | 288            | 284          | 284           | 271           |
| Ohio.....               | 21, 847   | 22, 781  | 22, 306        | 22, 786      | 22, 161       | 21, 382       |
| Oklahoma.....           | 7   | 7        | 7              | 7            | 6             | 6             |
| Oregon.....             | 60  | 62       | 65             | 67           | 67            | 65            |
| Pennsylvania.....       | 13, 287   | 12, 881  | 13, 769        | 14, 951      | 14, 440       | 13, 719       |
| Rhode Island.....       | 350   | 357      | 385            | 397          | 359           | 351           |
| Tennessee.....          | 1, 059  | 964      | 1, 069         | 1, 150       | 1, 207        | 1, 149        |
| Texas.....              | 299   | 301      | 303            | 311          | 320           | 317           |
| Utah.....               | 14  | 15       | 18             | 16           | 14            | 11            |
| Virginia.....           | 192   | 190      | 203            | 213          | 234           | 230           |
| Washington.....         | 185   | 193      | 189            | 169          | 164           | 185           |
| West Virginia.....      | 34  | 27       | 29             | 33           | 36            | 38            |
| Wisconsin.....          | 7, 822  | 8, 720   | 9, 107         | 9, 233       | 9, 112        | 9, 039        |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 74.4; 1923, 84.3; 1921, 56.9; 1919, 69.2.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE   | 1925    |                              | 1923             |                                       | 1919             |                                       |
|--|---------|------------------------------|------------------|---------------------------------------|------------------|---------------------------------------|
|  | Num-ber | Horse-power                  | Num-ber          | Horse-power                           | Num-ber          | Horse-power                           |
| Prime movers, total.....   | 64,714  | 662,255                      | 37,063           | 425,088                               | 22,269           | <sup>1</sup> 256,770                  |
| Steam engines.....   | 183     | 73,516                       | 258              | 80,414                                | { 276            | 32,920                                |
| Steam turbines.....  | 42      | 119,331                      |                  |                                       | { 26             | 8,760                                 |
| Internal-combustion engines.....                                 | 24      | 1,125                        | 71               | 2,584                                 | 179              | 12,066                                |
| Water wheels and turbines.....                                   | 8       | 495                          | 25               | 9,748                                 | <sup>2</sup> 15  | <sup>2</sup> 566                      |
| Electric motors driven by purchased current.....                 | 64,457  | 467,788                      | 36,709           | 323,342                               | 21,773           | 202,458                               |
| Electric motors, total.....                                      | 101,432 | 649,283                      | 48,162           | 398,233                               | 23,420           | 220,204                               |
| Driven by purchased current.....                                 | 64,457  | 467,788                      | 36,709           | 323,342                               | 21,773           | 202,458                               |
| Driven by current generated in establish-<br>ment reporting..... | 36,975  | 181,495                      | 11,453           | 74,891                                | 1,647            | 17,746                                |
|  |         | <i>Kilo-watts</i><br>130,080 |                  | <i>Kilo-watts</i><br>( <sup>3</sup> ) |                  | <i>Kilo-watts</i><br>( <sup>3</sup> ) |
| Electric generators.....   | 188     |                              | ( <sup>3</sup> ) |                                       | ( <sup>3</sup> ) |                                       |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Includes data for a small number of water motors.

<sup>3</sup> Not called for on schedule.

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES:  
1925

[No comparable data for earlier years. See "Comparability of statistics for earlier years," p. 1124]

| PRODUCT   |                  | Value           |
|---|------------------|-----------------|
| Total value of products.....  |                  | \$1,523,279,923 |
| Bodies:   |                  |                 |
| Passenger—  |                  |                 |
| Open.....   |                  | 42,376,169      |
| Closed.....   |                  | 371,773,187     |
| Truck.....  |                  | 35,929,557      |
| Bus, taxicab, etc.....  |                  | 13,900,499      |
| Hearse.....   |                  | 806,230         |
| Dump, steel.....  |                  | 4,072,812       |
| All other.....  |                  | 366,845         |
| Gears:  |                  |                 |
| Transmission, differential, timer, etc.....   | Number           |                 |
| Steering, complete units.....   | ( <sup>2</sup> ) | 49,531,144      |
| Tops.....   | 1,565,841        | 11,949,939      |
| Wheels:   | 55,333           | 2,132,775       |
| Disc.....   | 3,502,168        | 17,638,009      |
| Wire and metal spoke <sup>3</sup> .....   | 1,228,100        | 10,969,577      |
| Wood.....   | 13,319,287       | 38,843,284      |
| Radiators (shells and cores).....   | ( <sup>2</sup> ) | 41,447,298      |
| Bumpers.....  | 2,725,273        | 18,600,518      |
| Axles:  |                  |                 |
| Front.....  | 1,028,054        | 16,551,023      |
| Rear, complete.....   | 928,874          | 52,429,145      |
| Rear-axle housings.....   | 775,994          | 3,800,025       |
| Axle shafts, rear.....  | 739,736          | 1,156,641       |
| Shock absorbers.....  | 2,518,943        | 11,747,670      |
| Windshields.....  | 1,869,823        | 11,454,323      |
| Rims.....   | 21,330,092       | 17,762,047      |
| Frames:   |                  |                 |
| Assembled.....  | 2,694,550        | 29,957,983      |
| Unassembled (sets).....   | 482,337          | 6,577,039       |
| Horns.....  | 4,270,741        | 5,389,626       |
| Sheet metal for automobiles, such as fenders, dust shields, hoods or bonnets, etc., value.... |                  | 19,755,115      |
| Parts and accessories (not reported in detail), value.....                                    |                  | 628,208,299     |
| All other products, value.....  |                  | 42,070,933      |
| Contract work on materials furnished by others.....   |                  | 238,389         |
| Amount received for custom work and repairing.....  |                  | 15,842,822      |

<sup>1</sup> In addition, motor-vehicle bodies and motor-vehicle parts to the following values were manufactured as secondary products by establishments engaged primarily in the motor-vehicle and other industries; 1925, \$17,273,031; 1923, \$15,733,031; 1921, \$24,902,031; and 1919, \$17,542,573.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Includes data for the output of 3 establishments manufacturing wire wheels, to avoid disclosing their operations.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 1,358                    | 249,490                         | 629                          | 120,479                         | 228,382                       | 662,255     |
| Alabama.....                        | 3                        | 14                              | 5                            | 9                               | 116                           |             |
| Arkansas.....                       | 5                        | 326                             | 4                            | 21                              | 301                           | 1,757       |
| California.....                     | 130                      | 2,610                           | 102                          | 415                             | 2,093                         | 6,104       |
| Colorado.....                       | 12                       | 141                             | 8                            | 23                              | 110                           | 200         |
| Connecticut.....                    | 29                       | 1,373                           | 15                           | 249                             | 1,109                         | 2,317       |
| Florida.....                        | 7                        | 98                              | 8                            | 12                              | 78                            | 89          |
| Georgia.....                        | 4                        | 69                              | 2                            | 4                               | 63                            | 35          |
| Illinois.....                       | 135                      | 6,072                           | 67                           | 967                             | 5,038                         | 14,532      |
| Indiana.....                        | 79                       | 10,887                          | 23                           | 1,164                           | 9,700                         | 30,659      |
| Iowa.....                           | 20                       | 465                             | 16                           | 94                              | 355                           | 977         |
| Kansas.....                         | 8                        | 96                              | 9                            | 11                              | 76                            | 220         |
| Kentucky.....                       | 9                        | 514                             | 3                            | 58                              | 453                           | 2,856       |
| Louisiana.....                      | 5                        | 74                              | 1                            | 19                              | 54                            | 161         |
| Maine.....                          | 3                        | 15                              | -----                        | 3                               | 12                            | 59          |
| Maryland.....                       | 12                       | 197                             | 6                            | 15                              | 176                           | 485         |
| Massachusetts.....                  | 66                       | 5,250                           | 33                           | 541                             | 4,676                         | 5,424       |
| Michigan.....                       | 128                      | 142,237                         | 32                           | 7,608                           | 134,597                       | 386,294     |
| Minnesota.....                      | 23                       | 369                             | 14                           | 61                              | 294                           | 687         |
| Mississippi.....                    | 3                        | 87                              | -----                        | 7                               | 80                            | 494         |
| Missouri.....                       | 39                       | 2,341                           | 17                           | 189                             | 2,135                         | 6,004       |
| Nebraska.....                       | 7                        | 146                             | 2                            | 26                              | 118                           | 193         |
| New Jersey.....                     | 53                       | 6,421                           | 25                           | 1,021                           | 5,375                         | 13,379      |
| New York.....                       | 172                      | 18,732                          | 74                           | 2,331                           | 16,327                        | 53,053      |
| North Carolina.....                 | 10                       | 285                             | 3                            | 34                              | 248                           | 589         |
| Ohio.....                           | 146                      | 24,003                          | 40                           | 2,361                           | 21,602                        | 69,822      |
| Oklahoma.....                       | 4                        | 11                              | 2                            | 3                               | 6                             | 39          |
| Oregon.....                         | 11                       | 82                              | 10                           | 8                               | 64                            | 112         |
| Pennsylvania.....                   | 103                      | 14,992                          | 57                           | 1,816                           | 13,119                        | 38,989      |
| Rhode Island.....                   | 8                        | 400                             | -----                        | 56                              | 344                           | 641         |
| Tennessee.....                      | 17                       | 1,199                           | 9                            | 79                              | 1,111                         | 6,219       |
| Texas.....                          | 23                       | 408                             | 19                           | 65                              | 324                           | 815         |
| Utah.....                           | 3                        | 22                              | -----                        | 7                               | 15                            | 57          |
| Virginia.....                       | 7                        | 224                             | 3                            | 28                              | 193                           | 245         |
| Washington.....                     | 21                       | 229                             | 9                            | 48                              | 172                           | 629         |
| West Virginia.....                  | 3                        | 48                              | 2                            | 6                               | 40                            | 51          |
| Wisconsin.....                      | 39                       | 8,925                           | 11                           | 1,084                           | 7,830                         | 17,710      |
| All other States <sup>2</sup> ..... | 11                       | 128                             | 3                            | 40                              | 85                            | 242         |

See footnotes at end of table

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925—Continued

[See note at head of this table]

| STATE                               | Salaries     | Wages         | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>3</sup> |
|-------------------------------------|--------------|---------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$49,030,098 | \$372,720,933 | \$1,504,035            | \$862,721,451     | \$1,523,279,923   | \$660,558,472                           |
| Alabama.....                        | 11,342       | 10,129        | -----                  | 36,393            | 74,193            | 37,800                                  |
| Arkansas.....                       | 45,298       | 270,415       | 7,285                  | 434,527           | 905,632           | 471,105                                 |
| California.....                     | 962,139      | 3,254,783     | 43,233                 | 9,604,983         | 16,827,452        | 7,222,469                               |
| Colorado.....                       | 41,521       | 158,913       | -----                  | 212,654           | 465,874           | 253,220                                 |
| Connecticut.....                    | 577,954      | 1,480,135     | 5,037                  | 3,201,992         | 7,827,275         | 4,625,283                               |
| Florida.....                        | 26,285       | 99,343        | -----                  | 96,066            | 280,730           | 184,664                                 |
| Georgia.....                        | 6,941        | 75,712        | -----                  | 106,655           | 236,071           | 129,416                                 |
| Illinois.....                       | 2,193,440    | 7,664,034     | 449,247                | 13,136,502        | 31,302,829        | 18,166,327                              |
| Indiana.....                        | 2,655,450    | 13,136,389    | 55,529                 | 30,653,729        | 54,078,861        | 23,425,132                              |
| Iowa.....                           | 220,401      | 384,300       | 1,132                  | 1,030,778         | 2,318,326         | 1,287,548                               |
| Kansas.....                         | 15,729       | 86,243        | 109                    | 224,285           | 417,437           | 193,152                                 |
| Kentucky.....                       | 134,661      | 592,116       | 5,200                  | 1,143,247         | 2,301,893         | 1,158,646                               |
| Louisiana.....                      | 24,240       | 63,312        | 120                    | 91,600            | 209,062           | 117,492                                 |
| Maine.....                          | 5,300        | 16,233        | 162                    | 18,246            | 45,349            | 27,103                                  |
| Maryland.....                       | 28,149       | 231,257       | 6,741                  | 211,072           | 651,406           | 440,334                                 |
| Massachusetts.....                  | 1,266,840    | 7,116,330     | 153,054                | 14,616,036        | 26,840,523        | 12,224,487                              |
| Michigan.....                       | 19,634,470   | 226,522,140   | 54,311                 | 543,910,130       | 921,901,337       | 377,991,207                             |
| Minnesota.....                      | 122,573      | 367,107       | 12,591                 | 726,746           | 1,718,616         | 991,870                                 |
| Mississippi.....                    | 12,125       | 76,115        | 3,000                  | 208,440           | 387,187           | 178,747                                 |
| Missouri.....                       | 378,188      | 3,254,145     | 4,224                  | 11,023,925        | 17,980,005        | 6,956,080                               |
| Nebraska.....                       | 42,322       | 145,690       | -----                  | 218,200           | 489,557           | 271,357                                 |
| New Jersey.....                     | 1,991,281    | 9,490,439     | 91,943                 | 14,251,981        | 31,648,867        | 17,396,886                              |
| New York.....                       | 5,294,117    | 26,439,050    | 268,204                | 56,182,746        | 105,798,733       | 49,615,987                              |
| North Carolina.....                 | 78,239       | 288,101       | 555                    | 333,538           | 903,172           | 569,634                                 |
| Ohio.....                           | 5,811,533    | 35,803,421    | 228,755                | 83,341,247        | 149,780,367       | 66,439,120                              |
| Oklahoma.....                       | 4,000        | 10,211        | -----                  | 11,910            | 36,303            | 24,393                                  |
| Oregon.....                         | 12,377       | 98,059        | 12,614                 | 125,015           | 300,160           | 175,145                                 |
| Pennsylvania.....                   | 4,255,980    | 19,587,185    | 59,472                 | 35,325,863        | 77,718,559        | 42,392,696                              |
| Rhode Island.....                   | 138,489      | 456,444       | 26,750                 | 899,495           | 1,560,983         | 651,488                                 |
| Tennessee.....                      | 179,940      | 1,150,532     | 1,490                  | 3,223,879         | 4,961,725         | 1,737,846                               |
| Texas.....                          | 130,213      | 385,181       | 3,037                  | 589,897           | 1,397,171         | 807,274                                 |
| Utah.....                           | 13,800       | 19,030        | -----                  | 22,516            | 63,044            | 40,528                                  |
| Virginia.....                       | 73,073       | 203,302       | 832                    | 541,398           | 968,812           | 427,414                                 |
| Washington.....                     | 70,325       | 289,902       | 4,153                  | 370,076           | 867,137           | 497,061                                 |
| West Virginia.....                  | 15,882       | 51,240        | -----                  | 42,576            | 128,752           | 86,176                                  |
| Wisconsin.....                      | 2,522,722    | 13,329,566    | 4,200                  | 36,346,767        | 59,403,191        | 23,056,424                              |
| All other States <sup>2</sup> ..... | 32,809       | 114,424       | 1,055                  | 206,341           | 493,302           | 286,961                                 |

<sup>1</sup> Not including 501 salaried officers and employees of central administrative offices, with salaries aggregating \$2,073,636. For purposes of comparison with the statistics published for earlier years, these figures should be added to those given in the table, making combined totals of 20,980 salaried officers and employees and \$51,103,734. (See "Central-administrative-office employees," p. 1193.)

<sup>2</sup> Arizona, 1 establishment; Delaware, 3; District of Columbia, 1; Idaho, 2; Montana, 1; New Hampshire 1; South Carolina, 1; Vermont, 1.

<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>4</sup> See footnote 1, Table 4, p. 1129.

## SHIP AND BOAT BUILDING

[A preliminary report for this industry was issued under date of January 4, 1927]

**Description of the industry.**—The statistics for this industry cover privately owned establishments engaged primarily in the construction or repair of water craft of any kind. Since 1919 no data have been collected from shipyards operated by the Federal Government, and no statistics relating to such shipyards are shown in this report. For census purposes the industry is divided into two branches: (1) Steel shipbuilding, including repair work; (2) wooden ship and boat building, including repair work. Each establishment as a whole is classified in one branch or the other, according to whether it was engaged wholly or chiefly in steel shipbuilding or in wooden ship or boat building.

As generally used in this report, the term "ship" or "vessel" refers to craft of 5 gross tons' measurement or over, while craft under 5 tons are designated as "boats." (See "Tonnage, gross, net, and displacement.")

**Value of products.**—The value of products shown for this industry, so far as it represents new construction, is limited to the value of work done during the year, and therefore does not include the total value of completed vessels except those on which construction was begun and finished within the census year. The values of products for the two branches of the industry, as shown in Tables 1 and 16, do not exactly represent the values of work done on steel and on wooden vessels, respectively, for the reason that each establishment as a whole is necessarily classified in one branch or the other (see "Description of the industry"), although some establishments performed work on both steel and wooden vessels. Moreover, the total values of products for the industry as a whole and for each branch include the values of certain products other than water craft ("All other products," Table 4).

**Tonnage, gross, net, and displacement.**—The term "Gross tonnage" is applied to the total internal capacity of a vessel, expressed in tons of 100 cubic feet. "Net tonnage" refers to the internal cubic capacity remaining after deductions have been made from gross tonnage for space occupied by boilers, machinery, and coal bunkers or oil tanks, for quarters of officers and crew, and for other purposes directly or indirectly connected with the operation of the vessel. In other words, the net tonnage represents that portion of the vessel which is available for passengers or cargo. "Displacement tonnage" refers to the weight of the volume of water displaced, which, of course, is the same as the weight of the vessel itself. It is calculated on the basis of 35 cubic feet (approximately the volume of a long ton of sea water) to the ton. Naval vessels and, in a few cases, other vessels built for the Federal Government have been reported in displacement tonnage; and since in most cases it has been impracticable to reduce such tonnage to gross tonnage, it has been necessary to combine displacement tonnage and gross tonnage in the totals for the United States (see footnote 1, Table 4), although there is a considerable difference between the two units of measure.

TABLE 1.—SUMMARY FOR THE INDUSTRY, AND ITS BRANCHES, FOR THE UNITED STATES: 1916 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1916 but not for subsequent years. See sec. 10; p. 5]

| YEAR OR PERIOD                                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power      |
|--|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|------------------|
| <b>SHIPBUILDING—THE INDUSTRY AS A WHOLE</b>          |                          |                               |              |                        |                                |                   |   |                  |
| 1925.....  | 565                      | 50,224                        | \$74,275,019 | \$1,513,670            | \$86,298,964                   | \$177,181,960     | \$110,882,996                           | 303,470          |
| 1923.....  | 567                      | 62,287                        | 90,719,525   | 1,543,976              | 84,557,675                     | 213,232,382       | 128,674,707                             | 317,712          |
| 1921.....  | 610                      | 106,445                       | 155,943,490  | 1,447,746              | 169,368,425                    | 400,834,105       | 231,465,680                             | ( <sup>3</sup> ) |
| 1919.....  | 1,075                    | 387,446                       | 597,446,648  | 10,107,529             | 710,522,676                    | 1,622,361,261     | 911,838,585                             | 553,271          |
| 1916.....  | 1,137                    | 72,497                        | 60,575,901   | 4,092,789              | 89,268,830                     | 185,852,192       | 96,583,362                              | ( <sup>3</sup> ) |
| Per cent of increase or decrease (—):                |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                                       | -0.4                     | -19.4                         | -18.1        | -2.0                   | -21.6                          | -16.9             | -13.8                                   | -4.5             |
| 1921-1923.....                                       | -11.4                    | -41.5                         | -41.8        | 6.6                    | -50.1                          | -46.8             | -44.4                                   | -----            |
| 1921-1925.....                                       | -11.7                    | -52.8                         | -52.4        | 4.6                    | -60.9                          | -55.8             | -52.1                                   | -----            |
| 1916-1925.....                                       | -50.3                    | -30.7                         | 22.6         | -63.0                  | -25.7                          | -4.7              | 14.8                                    | -----            |
| <b>SHIPBUILDING, STEEL</b>                           |                          |                               |              |                        |                                |                   |   |                  |
| 1925.....  | 118                      | 38,308                        | \$56,686,531 | \$1,330,522            | \$49,557,802                   | \$132,415,163     | \$82,857,361                            | 259,463          |
| 1923.....  | 125                      | 51,961                        | 76,370,079   | 1,335,982              | 71,904,720                     | 177,703,187       | 105,798,467                             | 280,373          |
| 1921.....  | 126                      | 93,323                        | 137,122,187  | 1,271,119              | 153,818,179                    | 356,214,854       | 202,396,675                             | ( <sup>3</sup> ) |
| 1919.....  | 162                      | 344,014                       | 538,372,576  | 8,205,806              | 643,752,814                    | 1,456,489,516     | 812,736,702                             | 475,567          |
| 1916.....  | 109                      | 56,237                        | 48,020,123   | 3,911,332              | 69,961,072                     | 144,619,111       | 74,658,039                              | ( <sup>3</sup> ) |
| Per cent of increase or decrease (—):                |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                                       | -5.6                     | -26.3                         | -25.8        | -0.4                   | -31.1                          | -25.5             | -21.7                                   | -7.5             |
| 1921-1923.....                                       | -8                       | -44.3                         | -44.3        | 5.1                    | -53.3                          | -50.1             | -47.7                                   | -----            |
| 1921-1925.....                                       | -6.3                     | -59.0                         | -58.7        | 4.7                    | -67.8                          | -62.8             | -59.1                                   | -----            |
| 1916-1925.....                                       | 8.3                      | -31.9                         | 18.0         | -66.0                  | -29.2                          | -8.4              | 11.0                                    | -----            |
| <b>SHIPBUILDING, WOODEN, INCLUDING BOAT BUILDING</b> |                          |                               |              |                        |                                |                   |   |                  |
| 1925.....  | 447                      | 11,916                        | \$17,588,488 | \$183,148              | \$16,741,162                   | \$44,766,797      | \$28,025,635                            | 44,007           |
| 1923.....  | 442                      | 10,326                        | 14,849,446   | 207,904                | 12,652,955                     | 35,529,195        | 22,876,240                              | 37,339           |
| 1921.....  | 514                      | 13,122                        | 18,821,303   | 176,627                | 15,550,246                     | 44,619,251        | 29,069,005                              | ( <sup>3</sup> ) |
| 1919.....  | 913                      | 43,432                        | 59,074,072   | 1,901,723              | 66,769,862                     | 165,871,745       | 99,101,883                              | 77,704           |
| 1916.....  | 1,028                    | 16,260                        | 12,555,778   | 181,457                | 19,307,758                     | 41,233,081        | 21,925,823                              | ( <sup>3</sup> ) |
| Per cent of increase or decrease (—):                |                          |                               |              |                        |                                |                   |   |                  |
| 1923-1925.....                                       | 1.1                      | 15.4                          | 22.6         | -11.9                  | 32.3                           | 26.0              | 22.5                                    | 17.9             |
| 1921-1923.....                                       | -14.0                    | -21.3                         | -23.8        | 17.8                   | -18.6                          | -20.4             | -21.3                                   | -----            |
| 1921-1925.....                                       | -13.0                    | -9.2                          | -6.6         | 3.7                    | 7.7                            | .3                | -3.6                                    | -----            |
| 1916-1925.....                                       | -56.5                    | -26.7                         | 40.1         | .9                     | -13.3                          | 8.6               | 27.8                                    | -----            |

<sup>1</sup> Including also cost of fuel and electric power.<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)<sup>3</sup> Not called for on schedule.<sup>4</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3.)

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE INDUSTRY AND ITS BRANCHES, FOR THE UNITED STATES, 1919 TO 1925, AND FOR THE INDUSTRY, FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 16]

| NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |                                     |         |          |         |         |         |         |         |         |           |         |          |          |
|--|-------------------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|
| STATE  | Average number employed during year | January | February | March   | April   | May     | June    | July    | August  | September | October | November | December |
|  |                                     |         |          |         |         |         |         |         |         |           |         |          |          |
| United States—The industry as a whole:                                 | 1925 1                              | 50,224  | 51,498   | 53,103  | 54,986  | 52,947  | 51,008  | 48,820  | 47,493  | 46,714    | 46,693  | 47,858   | 51,065   |
|  | 1924 1                              | 62,287  | 63,321   | 66,075  | 66,176  | 64,363  | 63,683  | 62,884  | 61,006  | 58,556    | 58,091  | 59,079   | 60,435   |
|  | 1923 1                              | 106,445 | 109,928  | 149,246 | 138,843 | 123,092 | 111,246 | 88,865  | 80,912  | 71,688    | 62,307  | 56,750   | 46,826   |
|  | 1921 1                              | 387,446 | 444,683  | 432,454 | 429,218 | 427,614 | 418,438 | 403,585 | 390,825 | 369,255   | 323,395 | 301,172  | 302,206  |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Shipbuilding, steel—   | 1925 1                              | 38,308  | 39,841   | 40,930  | 41,723  | 39,687  | 38,178  | 36,989  | 36,206  | 35,433    | 35,075  | 36,277   | 39,072   |
|  | 1924 1                              | 51,961  | 54,373   | 56,318  | 55,293  | 52,562  | 52,083  | 51,612  | 50,205  | 48,356    | 48,171  | 49,694   | 50,449   |
|  | 1923 1                              | 93,323  | 153,705  | 142,755 | 124,326 | 110,000 | 97,781  | 85,900  | 69,144  | 60,579    | 51,141  | 45,537   | 44,862   |
|  | 1921 1                              | 344,014 | 378,842  | 345,596 | 376,102 | 380,799 | 375,018 | 362,726 | 353,840 | 335,164   | 293,784 | 273,350  | 274,315  |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Shipbuilding, wooden, including boat building—                         | 1925 1                              | 11,916  | 10,693   | 12,173  | 13,263  | 13,260  | 12,830  | 11,831  | 11,287  | 11,281    | 11,587  | 11,581   | 11,993   |
|  | 1924 1                              | 8,326   | 8,817    | 9,757   | 10,883  | 11,801  | 11,580  | 11,272  | 10,801  | 10,200    | 9,920   | 9,985    | 9,986    |
|  | 1923 1                              | 13,132  | 15,223   | 15,104  | 14,517  | 13,092  | 12,965  | 12,465  | 11,768  | 11,109    | 11,166  | 11,213   | 10,963   |
|  | 1921 1                              | 43,432  | 63,841   | 60,857  | 56,352  | 46,815  | 43,420  | 40,813  | 36,976  | 34,091    | 29,611  | 27,822   | 27,891   |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| California   | 1925 1                              | 3,719   | 4,256    | 4,159   | 4,237   | 3,643   | 3,703   | 3,749   | 3,361   | 3,123     | 3,208   | 3,453    | 3,614    |
|  | 1924 1                              | 675     | 644      | 658     | 600     | 723     | 723     | 723     | 670     | 624       | 674     | 660      | 768      |
|  | 1923 1                              | 692     | 573      | 674     | 849     | 752     | 685     | 605     | 540     | 641       | 665     | 714      | 781      |
|  | 1921 1                              | 985     | 1,017    | 1,043   | 1,064   | 990     | 968     | 869     | 789     | 876       | 971     | 1,007    | 1,147    |
|  | 1919 1                              | 124     | 45       | 197     | 79      | 74      | 88      | 111     | 164     | 208       | 223     | 112      | 110      |
| Georgia  | 1925 1                              | 264     | 195      | 208     | 289     | 355     | 271     | 220     | 247     | 327       | 242     | 288      | 321      |
|  | 1924 1                              | 152     | 154      | 134     | 155     | 165     | 144     | 103     | 116     | 138       | 119     | 177      | 198      |
|  | 1923 1                              | 897     | 1,188    | 1,113   | 992     | 749     | 597     | 819     | 743     | 830       | 884     | 795      | 1,029    |
|  | 1921 1                              | 606     | 801      | 821     | 750     | 717     | 678     | 637     | 477     | 344       | 375     | 389      | 417      |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Illinois   | 1925 1                              | 1,696   | 1,752    | 1,914   | 2,452   | 1,869   | 1,869   | 1,624   | 1,682   | 1,378     | 1,405   | 1,377    | 1,429    |
|  | 1924 1                              | 4,167   | 3,553    | 3,914   | 4,204   | 4,519   | 4,508   | 4,388   | 4,512   | 4,217     | 4,111   | 3,932    | 4,264    |
|  | 1923 1                              | 1,901   | 1,312    | 1,988   | 2,240   | 2,390   | 2,100   | 1,888   | 1,518   | 1,091     | 1,083   | 1,045    | 1,068    |
|  | 1921 1                              | 124     | 128      | 148     | 156     | 154     | 132     | 126     | 112     | 101       | 95      | 105      | 75       |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Maryland   | 1925 1                              | 50      | 36       | 35      | 38      | 45      | 44      | 45      | 50      | 57        | 48      | 48       | 121      |
|  | 1924 1                              | 7,652   | 7,236    | 7,814   | 7,868   | 8,137   | 7,703   | 7,694   | 7,446   | 7,533     | 6,950   | 7,776    | 7,961    |
|  | 1923 1                              | 9,170   | 9,560    | 10,457  | 10,857  | 10,568  | 10,147  | 9,575   | 9,474   | 8,991     | 8,501   | 8,345    | 8,606    |
|  | 1921 1                              | 1,909   | 2,031    | 2,772   | 2,222   | 1,688   | 1,500   | 975     | 797     | 1,322     | 1,889   | 2,139    | 2,335    |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| New Jersey   | 1925 1                              | 3,719   | 4,256    | 4,159   | 4,237   | 3,643   | 3,703   | 3,749   | 3,361   | 3,123     | 3,208   | 3,453    | 3,614    |
|  | 1924 1                              | 675     | 644      | 658     | 600     | 723     | 723     | 723     | 670     | 624       | 674     | 660      | 768      |
|  | 1923 1                              | 692     | 573      | 674     | 849     | 752     | 685     | 605     | 540     | 641       | 665     | 714      | 781      |
|  | 1921 1                              | 985     | 1,017    | 1,043   | 1,064   | 990     | 968     | 869     | 789     | 876       | 971     | 1,007    | 1,147    |
|  | 1919 1                              | 124     | 45       | 197     | 79      | 74      | 88      | 111     | 164     | 208       | 223     | 112      | 110      |
| Louisiana  | 1925 1                              | 264     | 195      | 208     | 289     | 355     | 271     | 220     | 247     | 327       | 242     | 288      | 321      |
|  | 1924 1                              | 152     | 154      | 134     | 155     | 165     | 144     | 103     | 116     | 138       | 119     | 177      | 198      |
|  | 1923 1                              | 897     | 1,188    | 1,113   | 992     | 749     | 597     | 819     | 743     | 830       | 884     | 795      | 1,029    |
|  | 1921 1                              | 606     | 801      | 821     | 750     | 717     | 678     | 637     | 477     | 344       | 375     | 389      | 417      |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Maine  | 1925 1                              | 1,696   | 1,752    | 1,914   | 2,452   | 1,869   | 1,869   | 1,624   | 1,682   | 1,378     | 1,405   | 1,377    | 1,429    |
|  | 1924 1                              | 4,167   | 3,553    | 3,914   | 4,204   | 4,519   | 4,508   | 4,388   | 4,512   | 4,217     | 4,111   | 3,932    | 4,264    |
|  | 1923 1                              | 1,901   | 1,312    | 1,988   | 2,240   | 2,390   | 2,100   | 1,888   | 1,518   | 1,091     | 1,083   | 1,045    | 1,068    |
|  | 1921 1                              | 124     | 128      | 148     | 156     | 154     | 132     | 126     | 112     | 101       | 95      | 105      | 75       |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Massachusetts  | 1925 1                              | 50      | 36       | 35      | 38      | 45      | 44      | 45      | 50      | 57        | 48      | 48       | 121      |
|  | 1924 1                              | 7,652   | 7,236    | 7,814   | 7,868   | 8,137   | 7,703   | 7,694   | 7,446   | 7,533     | 6,950   | 7,776    | 7,961    |
|  | 1923 1                              | 9,170   | 9,560    | 10,457  | 10,857  | 10,568  | 10,147  | 9,575   | 9,474   | 8,991     | 8,501   | 8,345    | 8,606    |
|  | 1921 1                              | 1,909   | 2,031    | 2,772   | 2,222   | 1,688   | 1,500   | 975     | 797     | 1,322     | 1,889   | 2,139    | 2,335    |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Michigan   | 1925 1                              | 3,719   | 4,256    | 4,159   | 4,237   | 3,643   | 3,703   | 3,749   | 3,361   | 3,123     | 3,208   | 3,453    | 3,614    |
|  | 1924 1                              | 675     | 644      | 658     | 600     | 723     | 723     | 723     | 670     | 624       | 674     | 660      | 768      |
|  | 1923 1                              | 692     | 573      | 674     | 849     | 752     | 685     | 605     | 540     | 641       | 665     | 714      | 781      |
|  | 1921 1                              | 985     | 1,017    | 1,043   | 1,064   | 990     | 968     | 869     | 789     | 876       | 971     | 1,007    | 1,147    |
|  | 1919 1                              | 124     | 45       | 197     | 79      | 74      | 88      | 111     | 164     | 208       | 223     | 112      | 110      |
| Minnesota  | 1925 1                              | 264     | 195      | 208     | 289     | 355     | 271     | 220     | 247     | 327       | 242     | 288      | 321      |
|  | 1924 1                              | 152     | 154      | 134     | 155     | 165     | 144     | 103     | 116     | 138       | 119     | 177      | 198      |
|  | 1923 1                              | 897     | 1,188    | 1,113   | 992     | 749     | 597     | 819     | 743     | 830       | 884     | 795      | 1,029    |
|  | 1921 1                              | 606     | 801      | 821     | 750     | 717     | 678     | 637     | 477     | 344       | 375     | 389      | 417      |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| Mississippi  | 1925 1                              | 50      | 36       | 35      | 38      | 45      | 44      | 45      | 50      | 57        | 48      | 48       | 121      |
|  | 1924 1                              | 7,652   | 7,236    | 7,814   | 7,868   | 8,137   | 7,703   | 7,694   | 7,446   | 7,533     | 6,950   | 7,776    | 7,961    |
|  | 1923 1                              | 9,170   | 9,560    | 10,457  | 10,857  | 10,568  | 10,147  | 9,575   | 9,474   | 8,991     | 8,501   | 8,345    | 8,606    |
|  | 1921 1                              | 1,909   | 2,031    | 2,772   | 2,222   | 1,688   | 1,500   | 975     | 797     | 1,322     | 1,889   | 2,139    | 2,335    |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |
| New York   | 1925 1                              | 3,719   | 4,256    | 4,159   | 4,237   | 3,643   | 3,703   | 3,749   | 3,361   | 3,123     | 3,208   | 3,453    | 3,614    |
|  | 1924 1                              | 675     | 644      | 658     | 600     | 723     | 723     | 723     | 670     | 624       | 674     | 660      | 768      |
|  | 1923 1                              | 692     | 573      | 674     | 849     | 752     | 685     | 605     | 540     | 641       | 665     | 714      | 781      |
|  | 1921 1                              | 985     | 1,017    | 1,043   | 1,064   | 990     | 968     | 869     | 789     | 876       | 971     | 1,007    | 1,147    |
|  | 1919 1                              | 124     | 45       | 197     | 79      | 74      | 88      | 111     | 164     | 208       | 223     | 112      | 110      |
| Ohio   | 1925 1                              | 264     | 195      | 208     | 289     | 355     | 271     | 220     | 247     | 327       | 242     | 288      | 321      |
|  | 1924 1                              | 152     | 154      | 134     | 155     | 165     | 144     | 103     | 116     | 138       | 119     | 177      | 198      |
|  | 1923 1                              | 897     | 1,188    | 1,113   | 992     | 749     | 597     | 819     | 743     | 830       | 884     | 795      | 1,029    |
|  | 1921 1                              | 606     | 801      | 821     | 750     | 717     | 678     | 637     | 477     | 344       | 375     | 389      | 417      |
|  | 1919 1                              |         |          |         |         |         |         |         |         |           |         |          |          |



|                    |        |        |        |        |        |        |        |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Oregon.....        | 226    | 200    | 250    | 257    | 248    | 216    | 206    | 165    | 219    | 224    | 255    | 257    |
| Pennsylvania.....  | 4, 125 | 3, 932 | 3, 318 | 3, 412 | 3, 961 | 3, 930 | 4, 137 | 4, 459 | 4, 351 | 4, 593 | 4, 863 | 5, 433 |
| Rhode Island.....  | 611    | 577    | 599    | 686    | 672    | 496    | 459    | 459    | 563    | 675    | 697    | 670    |
| Texas.....         | 359    | 369    | 415    | 421    | 463    | 432    | 449    | 280    | 345    | 234    | 270    | 259    |
| Virginia.....      | 6, 042 | 5, 756 | 5, 702 | 6, 583 | 6, 291 | 6, 059 | 5, 916 | 6, 021 | 5, 794 | 5, 780 | 5, 933 | 6, 498 |
| Washington.....    | 1, 083 | 2, 075 | 1, 080 | 1, 054 | 971    | 972    | 762    | 657    | 853    | 874    | 877    | 841    |
| West Virginia..... | 178    | 135    | 149    | 148    | 111    | 116    | 135    | 180    | 216    | 254    | 287    | 279    |
| Wisconsin.....     | 1, 310 | 1, 190 | 1, 255 | 1, 304 | 1, 460 | 1, 473 | 1, 362 | 1, 411 | 1, 331 | 1, 139 | 1, 242 | 1, 352 |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum for "The industry as a whole": 1925, 84.9; 1923, 57.8; 1921, 32.9; 1919, 67.7.

TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE   | 1925    |                   | 1923             |                   | 1919             |                   |
|--|---------|-------------------|------------------|-------------------|------------------|-------------------|
|  | Num-ber | Horse-power       | Num-ber          | Horse-power       | Num-ber          | Horse-power       |
| Prime movers, total.....                                     | 12, 469 | 303, 470          | 13, 538          | 317, 712          | 22, 179          | 1 553, 271        |
| Steam engines.....   | 384     | 47, 464           | 415              | 53, 382           | {                | 79, 164           |
| Steam turbines.....  | 21      | 4, 293            |                  |                   |                  | 39 42, 036        |
| Internal-combustion engines.....                             | 210     | 5, 164            | 226              | 4, 143            | 461              | 7, 019            |
| Water wheels and turbines.....                               | 7       | 85                | 1                | 5                 | 2 5              | 2 71              |
| Electric motors driven by purchased current.....             | 11, 847 | 246, 464          | 12, 946          | 260, 182          | 20, 924          | 424, 981          |
| Electric motors, total.....                                  | 14, 441 | 286, 197          | 14, 778          | 285, 909          | 23, 390          | 476, 135          |
| Driven by purchased current.....                             | 11, 847 | 246, 464          | 12, 946          | 260, 182          | 20, 924          | 424, 981          |
| Driven by current generated in establish-ment reporting..... | 2, 594  | 39, 733           | 1, 832           | 25, 727           | 2, 466           | 51, 154           |
|  |         | <i>Kilo-watts</i> |                  | <i>Kilo-watts</i> |                  | <i>Kilo-watts</i> |
| Electric generators.....                                     | 97      | 25, 989           | ( <sup>2</sup> ) | ( <sup>2</sup> )  | ( <sup>2</sup> ) | ( <sup>2</sup> )  |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Includes data for a small number of water motors.

<sup>3</sup> Not called for on schedule.

TABLE 4.—VESSELS LAUNCHED, DISTRIBUTED ACCORDING TO MATERIAL AND KIND OF POWER, BY NUMBER AND BY GROSS AND NET TONNAGE; AND VALUE OF WORK DONE, INCLUDING WORK ON VESSELS UNDER CONSTRUCTION; FOR THE UNITED STATES: 1919 TO 1925

| MATERIAL AND KIND OF POWER                   | Census Year | Number of vessels launched | TONNAGE                  |             | Value of work done during year |
|--|-------------|----------------------------|--------------------------|-------------|--------------------------------|
|  |             |                            | Gross <sup>1</sup>       | Net         |                                |
| Total value of work done.....                | 1925        | -----                      | -----                    | -----       | <sup>2</sup> \$177, 181, 960   |
|  | 1923        | -----                      | -----                    | -----       | <sup>2</sup> 213, 232, 382     |
|  | 1921        | -----                      | -----                    | -----       | <sup>2</sup> 400, 834, 105     |
|  | 1919        | -----                      | -----                    | -----       | <sup>2</sup> 1, 622, 361, 261  |
| Vessels of 5 gross tons and over.....        | 1925        | 1, 237                     | 352, 409                 | 257, 989    | 46, 137, 197                   |
|  | 1923        | 816                        | 394, 123                 | 288, 248    | 41, 098, 039                   |
|  | 1921        | 825                        | 1, 325, 885              | 855, 546    | 214, 207, 857                  |
|  | 1919        | 2, 033                     | 4, 489, 809              | 2, 788, 104 | 1, 008, 651, 169               |
| Steel.....                                   | 1925        | 369                        | 242, 027                 | 157, 086    | 35, 929, 130                   |
|  | 1923        | 289                        | 281, 316                 | 188, 711    | 35, 622, 732                   |
|  | 1921        | 387                        | 1, 206, 866              | 742, 024    | 209, 471, 658                  |
|  | 1919        | <sup>3</sup> 1, 095        | <sup>3</sup> 3, 734, 201 | 2, 211, 366 | 931, 540, 067                  |
| Steam.....                                   | 1925        | 47                         | 167, 733                 | 93, 757     | 27, 589, 433                   |
|  | 1923        | 57                         | 208, 179                 | 128, 810    | 27, 548, 524                   |
|  | 1921        | 176                        | 1, 116, 721              | 663, 897    | 197, 716, 303                  |
|  | 1919        | 999                        | 3, 670, 617              | 2, 171, 851 | 917, 787, 365                  |
| Motor.....                                   | 1925        | 31                         | 6, 730                   | 3, 632      | 2, 408, 636                    |
|  | 1923        | 23                         | 15, 097                  | 6, 443      | 3, 340, 767                    |
|  | 1921        | 17                         | 12, 588                  | 6, 291      | 4, 252, 338                    |
|  | 1919        | 46                         | 24, 780                  | 4, 477      | 8, 451, 751                    |
| Sail, with auxiliary power.....              | 1925        | 4                          | 1, 871                   | 1, 629      | 181, 500                       |
|  | 1923        | 1                          | 198                      | 149         | 98, 172                        |
|  | 1921        | 2                          | 583                      | 410         | 539, 024                       |
|  | 1919        | 1                          | 460                      | 368         | 150, 000                       |
| Sail, without auxiliary power.....           | 1919        | 2                          | 1, 464                   | 1, 329      | 180, 000                       |
| Unrigged.....                                | 1925        | 287                        | 65, 693                  | 58, 068     | 5, 749, 561                    |
|  | 1923        | 208                        | 57, 842                  | 53, 309     | 4, 635, 269                    |
|  | 1921        | 192                        | 76, 974                  | 71, 426     | 6, 963, 993                    |
|  | 1919        | 47                         | 36, 880                  | 33, 341     | 4, 970, 951                    |
| Barges, including sloop and schooner barges. | 1925        | 231                        | 48, 222                  | 43, 263     | 3, 699, 878                    |
|  | 1923        | 181                        | 53, 084                  | 49, 300     | 3, 731, 267                    |
|  | 1921        | 150                        | 69, 503                  | 64, 573     | 5, 820, 053                    |
|  | 1919        | 42                         | 36, 130                  | 32, 591     | 4, 681, 951                    |
| Canal boats.....                             | 1925        | 2                          | 859                      | 800         | 101, 074                       |
|  | 1923        | 2                          | 1, 316                   | 827         | 384, 831                       |
|  | 1921        | 24                         | 2, 312                   | 2, 304      | 206, 719                       |
| Lighters, scows, pile drivers, etc.          | 1925        | 54                         | 16, 612                  | 14, 005     | 1, 948, 609                    |
|  | 1923        | 25                         | 3, 442                   | 3, 182      | 519, 171                       |
|  | 1921        | 18                         | 5, 159                   | 4, 549      | 937, 221                       |
|  | 1919        | 5                          | 750                      | 750         | 289, 000                       |
| Wooden.....                                  | 1925        | 868                        | 110, 382                 | 100, 903    | 10, 208, 067                   |
|  | 1923        | 527                        | 112, 807                 | 99, 537     | 5, 475, 307                    |
|  | 1921        | 438                        | 119, 019                 | 113, 522    | 4, 736, 199                    |
|  | 1919        | 938                        | 755, 608                 | 576, 738    | 77, 111, 102                   |
| Steam.....                                   | 1925        | 22                         | 2, 124                   | 1, 754      | 395, 439                       |
|  | 1923        | 16                         | 2, 227                   | 1, 459      | 341, 877                       |
|  | 1921        | 20                         | 3, 342                   | 2, 047      | 645, 676                       |
|  | 1919        | 204                        | 340, 107                 | 194, 921    | 47, 651, 439                   |
| Motor.....                                   | 1925        | 344                        | 11, 511                  | 7, 329      | 5, 690, 231                    |
|  | 1923        | 176                        | 7, 292                   | 4, 733      | 2, 532, 313                    |
|  | 1921        | 128                        | 6, 500                   | 4, 538      | 1, 817, 534                    |
|  | 1919        | 195                        | 32, 394                  | 25, 088     | 4, 773, 162                    |
| Sail, with auxiliary power.....              | 1925        | 133                        | 2, 666                   | 1, 902      | 916, 362                       |
|  | 1923        | 41                         | 1, 414                   | 793         | 402, 302                       |
|  | 1921        | 27                         | 2, 214                   | 1, 652      | 250, 311                       |
|  | 1919        | 26                         | 17, 294                  | 14, 986     | 1, 600, 070                    |
| Sail, without auxiliary power.....           | 1925        | 7                          | 283                      | 214         | 54, 413                        |
|  | 1923        | 5                          | 485                      | 316         | 64, 969                        |
|  | 1921        | 9                          | 4, 738                   | 4, 116      | 126, 914                       |
|  | 1919        | 55                         | 61, 627                  | 52, 790     | 7, 338, 519                    |

See footnotes at end of table

TABLE 4.—VESSELS LAUNCHED, DISTRIBUTED ACCORDING TO MATERIAL AND KIND OF POWER, BY NUMBER AND BY GROSS AND NET TONNAGE; AND VALUE OF WORK DONE, INCLUDING WORK ON VESSELS UNDER CONSTRUCTION; FOR THE UNITED STATES: 1919 TO 1925—Continued

| MATERIAL AND KIND OF POWER                   | Census Year | Number of vessels launched | TONNAGE            |         | Value of work done during year |
|--|-------------|----------------------------|--------------------|---------|--------------------------------|
|  |             |                            | Gross <sup>1</sup> | Net     |                                |
| Vessels of 5 gross tons and over—Con.        |             |                            |                    |         |                                |
| Wooden—Continued.                            |             |                            |                    |         |                                |
| Unrigged.....                                | 1925        | 362                        | 93,798             | 89,704  | \$3,151,622                    |
|  | 1923        | 289                        | 101,359            | 92,236  | 2,133,846                      |
|  | 1921        | 254                        | 102,225            | 101,169 | 1,895,764                      |
|  | 1919        | 458                        | 304,156            | 288,953 | 15,747,912                     |
| Barges, including sloop and schooner barges. | 1925        | 134                        | 40,381             | 38,578  | 1,343,911                      |
|  | 1923        | 146                        | 53,388             | 49,506  | 973,898                        |
|  | 1921        | 162                        | 81,749             | 80,892  | 1,303,648                      |
|  | 1919        | 291                        | 260,249            | 248,059 | 14,039,230                     |
| Canal boats.....                             | 1925        | 15                         | 4,489              | 4,207   | 150,600                        |
|  | 1923        | 17                         | 6,860              | 5,649   | 150,560                        |
|  | 1921        | 29                         | 12,008             | 11,945  | 239,087                        |
|  | 1919        | 8                          | 703                | 684     | 36,180                         |
| Lighters, scows, pile drivers, etc.          | 1925        | 213                        | 48,928             | 46,919  | 1,657,111                      |
|  | 1923        | 126                        | 41,141             | 37,081  | 1,009,388                      |
|  | 1921        | 63                         | 8,468              | 8,832   | 353,029                        |
|  | 1919        | 159                        | 48,234             | 40,210  | 1,672,502                      |
| Boats under 5 gross tons:                    |             |                            |                    |         |                                |
| Motor boats.....                             | 1925        | 1,369                      | —                  | —       | 4,282,077                      |
|  | 1923        | 939                        | —                  | —       | 2,713,772                      |
|  | 1921        | 808                        | —                  | —       | 1,461,538                      |
|  | 1919        | 1,159                      | —                  | —       | 1,797,748                      |
| Sailboats <sup>4</sup> .....                 | 1925        | 743                        | —                  | —       | 426,901                        |
| Rowboats <sup>4</sup> .....                  | 1925        | 10,940                     | —                  | —       | 816,774                        |
| Canoes <sup>4</sup> .....                    | 1925        | 6,568                      | —                  | —       | 477,906                        |
| All other.....                               | 1925        | —                          | —                  | —       | 170,906                        |
|  | 1923        | —                          | —                  | —       | 1,512,080                      |
|  | 1921        | —                          | —                  | —       | 1,799,647                      |
|  | 1919        | —                          | —                  | —       | 3,051,749                      |
| Vessels under construction but not launched: |             |                            |                    |         |                                |
| Steel.....                                   | 1925        | —                          | —                  | —       | 16,435,010                     |
|  | 1923        | —                          | —                  | —       | 38,175,709                     |
|  | 1921        | —                          | —                  | —       | 68,422,952                     |
|  | 1919        | —                          | —                  | —       | <sup>5</sup> 345,039,234       |
| Wooden.....                                  | 1925        | —                          | —                  | —       | 1,849,264                      |
|  | 1923        | —                          | —                  | —       | 1,173,290                      |
|  | 1921        | —                          | —                  | —       | 891,598                        |
|  | 1919        | —                          | —                  | —       | 33,148,755                     |
| Amount received for repair work:             |             |                            |                    |         |                                |
| Steel.....                                   | 1925        | —                          | —                  | —       | 61,500,748                     |
|  | 1923        | —                          | —                  | —       | 81,319,294                     |
|  | 1921        | —                          | —                  | —       | 69,432,456                     |
|  | 1919        | —                          | —                  | —       | 136,227,508                    |
| Wooden.....                                  | 1925        | —                          | —                  | —       | 27,622,469                     |
|  | 1923        | —                          | —                  | —       | 31,229,167                     |
|  | 1921        | —                          | —                  | —       | 34,609,056                     |
|  | 1919        | —                          | —                  | —       | 47,494,229                     |
| All other products.....                      | 1925        | —                          | —                  | —       | 17,462,708                     |
|  | 1923        | —                          | —                  | —       | 16,011,031                     |
|  | 1921        | —                          | —                  | —       | 15,509,001                     |
|  | 1919        | —                          | —                  | —       | 46,950,869                     |

<sup>1</sup> Includes 41,356 tons for 1925, 19,322 tons for 1923, 39,500 tons for 1921, and 122,457 tons for 1919, reported as "Displacement tonnage" instead of gross tonnage. (See "Tonnage, gross, net, and displacement," p. 1132.)

<sup>2</sup> In addition, establishments engaged primarily in other industries reported work on new vessels and boats and repair work, to the following totals: 1925, \$390,343; 1923, \$779,471; 1921, \$954,089; 1919, \$3,764,105. For number and gross tonnage of vessels launched by such establishments, see Table 5.

<sup>3</sup> Includes 2 concrete steam vessels, 5 concrete motor vessels, and 7 concrete barges, with a combined gross tonnage of 18,034 tons, made in steel-shipbuilding establishments.

<sup>4</sup> Not reported separately at former censuses; included in "All other."

<sup>5</sup> Includes value of work on concrete vessels, \$4,006,878.

TABLE 5.—VESSELS LAUNCHED, DISTRIBUTED ACCORDING TO MATERIAL AND KIND OF POWER, BY NUMBER AND GROSS TONNAGE, AND NUMBER OF POWER BOATS BUILT, FOR THE UNITED STATES: 1919 TO 1925

| MATERIAL, KIND OF POWER, AND CENSUS YEAR | ALL ESTABLISHMENTS |                  | PRIVATE ESTABLISHMENTS IN SHIP-BUILDING INDUSTRY |                  | PRIVATE ESTABLISHMENTS IN OTHER INDUSTRIES |                  |
|--|--------------------|------------------|--|------------------|--|------------------|
|  | Number             | Gross tonnage    | Number   | Gross tonnage    | Number                                     | Gross tonnage    |
| Vessels of 5 gross tons and over:        |                    |                  |  |                  |  |                  |
| 1925                                     | 1,237              | 352,409          | 1,237  | 352,409          |  |                  |
| 1923                                     | 827                | 400,323          | 816  | 394,123          | 11   | 6,200            |
| 1921                                     | 836                | 1,333,585        | 825  | 1,325,885        | 11   | 7,700            |
| 1919                                     | 12,097             | 14,541,779       | 2,033  | 4,489,809        | 64   | 51,970           |
| Classified by material—                  |                    |                  |  |                  |  |                  |
| Steel—                                   |                    |                  |  |                  |  |                  |
| 1925                                     | 369                | 242,027          | 369  | 242,027          |  |                  |
| 1923                                     | 289                | 231,316          | 289  | 231,316          |  |                  |
| 1921                                     | 387                | 1,206,866        | 387  | 1,206,866        |  |                  |
| 1919                                     | 11,154             | 13,781,395       | 2,105  | 3,734,201        | 59   | 47,194           |
| Wooden—                                  |                    |                  |  |                  |  |                  |
| 1925                                     | 868                | 110,382          | 868  | 110,382          |  |                  |
| 1923                                     | 538                | 119,007          | 527  | 112,807          | 11   | 6,200            |
| 1921                                     | 449                | 126,719          | 438  | 119,019          | 11   | 7,700            |
| 1919                                     | 1,943              | 1,760,384        | 938  | 755,608          | 5  | 4,776            |
| Classified by power—                     |                    |                  |  |                  |  |                  |
| Steam—                                   |                    |                  |  |                  |  |                  |
| 1925                                     | 69                 | 169,857          | 69   | 169,857          |  |                  |
| 1923                                     | 73                 | 210,406          | 73   | 210,406          |  |                  |
| 1921                                     | 196                | 1,120,063        | 196  | 1,120,063        |  |                  |
| 1919                                     | 1,203              | 14,010,724       | 1,203  | 4,010,724        |  |                  |
| Motor—                                   |                    |                  |  |                  |  |                  |
| 1925                                     | 375                | 18,241           | 375  | 18,241           |  |                  |
| 1923                                     | 199                | 22,389           | 199  | 22,389           |  |                  |
| 1921                                     | 145                | 19,088           | 145  | 19,088           |  |                  |
| 1919                                     | 1,241              | 1,57,174         | 241  | 57,174           |  |                  |
| Sail, with auxiliary power—              |                    |                  |  |                  |  |                  |
| 1925                                     | 137                | 4,537            | 137  | 4,537            |  |                  |
| 1923                                     | 42                 | 1,612            | 42   | 1,612            |  |                  |
| 1921                                     | 29                 | 2,797            | 29   | 2,797            |  |                  |
| 1919                                     | 28                 | 19,242           | 27   | 17,754           | 1  | 1,488            |
| Sail, without auxiliary power—           |                    |                  |  |                  |  |                  |
| 1925                                     | 7                  | 283              | 7  | 283              |  |                  |
| 1923                                     | 5                  | 485              | 5  | 485              |  |                  |
| 1921                                     | 9                  | 4,738            | 9  | 4,738            |  |                  |
| 1919                                     | 58                 | 64,579           | 57   | 63,091           | 1  | 1,488            |
| Unrigged—                                |                    |                  |  |                  |  |                  |
| 1925                                     | 649                | 159,491          | 649  | 159,491          |  |                  |
| 1923                                     | 508                | 165,431          | 497  | 159,231          | 11   | 6,200            |
| 1921                                     | 457                | 186,899          | 446  | 179,199          | 11   | 7,700            |
| 1919                                     | 1,567              | 1,390,060        | 505  | 341,066          | 62   | 48,994           |
| Power boats of less than 5 gross tons:   |                    |                  |  |                  |  |                  |
| 1925                                     | 1,388              | ( <sup>3</sup> ) | 1,369  | ( <sup>3</sup> ) | 19   | ( <sup>3</sup> ) |
| 1923                                     | 939                | ( <sup>3</sup> ) | 939  | ( <sup>3</sup> ) |  |                  |
| 1921                                     | 1,010              | ( <sup>3</sup> ) | 808  | ( <sup>3</sup> ) | 202  | ( <sup>3</sup> ) |
| 1919                                     | 1,365              | ( <sup>3</sup> ) | 1,159  | ( <sup>3</sup> ) | 206  | ( <sup>3</sup> ) |

<sup>1</sup> These figures differ from those published in previous census reports because of the exclusion here and the inclusion in earlier reports of data for craft built in Government shipyards.

<sup>2</sup> Includes 14 concrete vessels, 18,034 gross tons.

<sup>3</sup> Not called for on schedule.

TABLE 6.—VESSELS LAUNCHED, DISTRIBUTED ACCORDING TO MATERIAL AND KIND OF POWER, BY TONNAGE GROUPS, NUMBER, AND GROSS TONNAGE, FOR THE UNITED STATES: 1919 TO 1925

| MATERIAL AND KIND OF POWER | Cen-<br>sus<br>year | TOTAL  |                    | LESS THAN<br>100 GROSS<br>TONS |         | 100 TO 500<br>GROSS TONS |         | 500 TO<br>1,000 GROSS<br>TONS |         | 1,000 TO 3,000<br>GROSS TONS |           | 3,000 GROSS<br>TONS AND<br>OVER |           |
|----------------------------|---------------------|--------|--------------------|--------------------------------|---------|--------------------------|---------|-------------------------------|---------|------------------------------|-----------|---------------------------------|-----------|
|                            |                     | Number | Gross ton-<br>nage | Number                         | Tonnage | Number                   | Tonnage | Number                        | Tonnage | Number                       | Tonnage   | Number                          | Tonnage   |
| Total.....                 | 1925                | 1,237  | 352,409            | 647                            | 20,415  | 488                      | 115,757 | 81                            | 55,654  | 7                            | 8,896     | 14                              | 151,687   |
|                            | 1923                | 1,816  | 1,394,123          | 267                            | 9,631   | 396                      | 100,545 | 107                           | 69,796  | 22                           | 34,806    | 24                              | 179,945   |
|                            | 1921                | 1,825  | 1,325,885          | 251                            | 10,907  | 275                      | 73,685  | 96                            | 61,818  | 59                           | 86,655    | 144                             | 1,092,820 |
|                            | 1919                | 12,033 | 14,489,809         | 276                            | 8,906   | 420                      | 115,434 | 233                           | 151,480 | 513                          | 1,145,099 | 591                             | 3,068,890 |
| Steel.....                 | 1925                | 369    | 242,027            | 38                             | 1,723   | 276                      | 57,848  | 36                            | 24,273  | 5                            | 6,496     | 14                              | 151,687   |
|                            | 1923                | 289    | 281,316            | 22                             | 752     | 201                      | 52,113  | 21                            | 15,768  | 20                           | 32,738    | 24                              | 179,945   |
|                            | 1921                | 387    | 1,206,866          | 43                             | 2,420   | 133                      | 40,608  | 38                            | 24,919  | 29                           | 46,099    | 144                             | 1,092,820 |
|                            | 1919                | 1,095  | 3,734,201          | 12                             | 508     | 71                       | 24,203  | 144                           | 93,093  | 343                          | 812,999   | 525                             | 2,803,398 |
| Steam and motor.           | 1925                | 78     | 174,463            | 14                             | 855     | 34                       | 9,192   | 13                            | 8,593   | 3                            | 4,136     | 14                              | 151,687   |
|                            | 1923                | 80     | 223,276            | 7                              | 352     | 24                       | 7,353   | 8                             | 6,760   | 17                           | 28,866    | 24                              | 179,945   |
|                            | 1921                | 193    | 1,129,309          | 10                             | 383     | 13                       | 4,278   | 14                            | 9,390   | 12                           | 22,438    | 144                             | 1,092,820 |
|                            | 1919                | 1,045  | 3,695,997          | 9                              | 338     | 48                       | 18,655  | 133                           | 86,964  | 331                          | 790,116   | 524                             | 2,799,324 |
| Sail.....                  | 1925                | 4      | 1,871              | ---                            | ---     | 1                        | 191     | 3                             | 1,680   | ---                          | ---       | ---                             | ---       |
|                            | 1923                | 1      | 198                | ---                            | ---     | 1                        | 198     | ---                           | ---     | ---                          | ---       | ---                             | ---       |
|                            | 1921                | 2      | 583                | ---                            | ---     | 2                        | 583     | ---                           | ---     | ---                          | ---       | ---                             | ---       |
|                            | 1919                | 3      | 1,924              | ---                            | ---     | 1                        | 460     | 2                             | 1,464   | ---                          | ---       | ---                             | ---       |
| Unrigged....               | 1925                | 287    | 65,693             | 24                             | 868     | 241                      | 48,465  | 20                            | 14,000  | 2                            | 2,360     | ---                             | ---       |
|                            | 1923                | 208    | 57,842             | 16                             | 400     | 176                      | 44,562  | 13                            | 9,008   | 3                            | 3,872     | ---                             | ---       |
|                            | 1921                | 192    | 76,974             | 33                             | 2,037   | 118                      | 35,747  | 24                            | 15,529  | 17                           | 23,661    | ---                             | ---       |
|                            | 1919                | 47     | 36,880             | 43                             | 1,170   | 22                       | 5,088   | 59                            | 4,665   | 12                           | 22,883    | 1                               | 4,074     |
| Wooden.....                | 1925                | 868    | 110,382            | 609                            | 18,692  | 212                      | 57,909  | 45                            | 31,381  | 2                            | 2,400     | ---                             | ---       |
|                            | 1923                | 527    | 112,807            | 244                            | 8,279   | 195                      | 48,432  | 86                            | 54,028  | 2                            | 2,068     | ---                             | ---       |
|                            | 1921                | 438    | 119,019            | 208                            | 8,487   | 142                      | 33,077  | 58                            | 36,899  | 30                           | 40,556    | ---                             | ---       |
|                            | 1919                | 938    | 755,608            | 264                            | 8,398   | 349                      | 91,231  | 89                            | 58,387  | 170                          | 332,100   | 66                              | 265,492   |
| Steam and motor.           | 1925                | 366    | 13,635             | 340                            | 9,065   | 25                       | 4,127   | 1                             | 443     | ---                          | ---       | ---                             | ---       |
|                            | 1923                | 192    | 9,519              | 173                            | 5,754   | 18                       | 3,197   | 1                             | 568     | ---                          | ---       | ---                             | ---       |
|                            | 1921                | 148    | 9,842              | 126                            | 4,159   | 20                       | 4,819   | 2                             | 1,364   | ---                          | ---       | ---                             | ---       |
|                            | 1919                | 399    | 372,501            | 189                            | 5,930   | 55                       | 21,357  | 8                             | 4,627   | 74                           | 188,163   | 43                              | 152,424   |
| Sail.....                  | 1925                | 140    | 2,949              | 137                            | 2,589   | 3                        | 360     | ---                           | ---     | ---                          | ---       | ---                             | ---       |
|                            | 1923                | 46     | 1,899              | 42                             | 1,286   | 4                        | 613     | ---                           | ---     | ---                          | ---       | ---                             | ---       |
|                            | 1921                | 36     | 6,952              | 26                             | 1,051   | 7                        | 1,750   | 1                             | 847     | 2                            | 3,304     | ---                             | ---       |
|                            | 1919                | 81     | 78,921             | 17                             | 299     | 10                       | 2,255   | 13                            | 9,203   | 37                           | 54,564    | 4                               | 12,600    |
| Unrigged....               | 1925                | 362    | 93,798             | 132                            | 7,038   | 184                      | 53,422  | 44                            | 30,938  | 2                            | 2,400     | ---                             | ---       |
|                            | 1923                | 289    | 101,389            | 29                             | 1,239   | 173                      | 44,622  | 85                            | 53,490  | 2                            | 2,068     | ---                             | ---       |
|                            | 1921                | 254    | 102,225            | 56                             | 3,277   | 115                      | 27,008  | 55                            | 34,688  | 28                           | 37,252    | ---                             | ---       |
|                            | 1919                | 458    | 304,186            | 58                             | 2,169   | 254                      | 67,619  | 68                            | 44,557  | 59                           | 89,373    | 19                              | 100,468   |

<sup>1</sup> The figures in this table refer solely to vessels launched by establishments classified in the shipbuilding industry. For number and gross tonnage of vessels launched by establishments in other industries, see Table 5.

<sup>2</sup> Includes 5 concrete vessels, 2,450 gross tons.

<sup>3</sup> Includes 2 concrete vessels, 12,574 gross tons.

<sup>4</sup> Includes 1 concrete vessel, 10 gross tons.

<sup>5</sup> Includes 5 concrete vessels, 3,000 gross tons.

TABLE 7.—VESSELS LAUNCHED, BY NUMBER AND GROSS TONNAGE, BY STATES: 1919 TO 1925

| STATE                 | 1925        |                  | 1923        |                  | 1921        |                  | 1919             |                  |
|-----------------------|-------------|------------------|-------------|------------------|-------------|------------------|------------------|------------------|
|                       | Num-<br>ber | Gross<br>tonnage | Num-<br>ber | Gross<br>tonnage | Num-<br>ber | Gross<br>tonnage | Num-<br>ber      | Gross<br>tonnage |
| United States.....    | 1,237       | 352,409          | 1,816       | 1,394,123        | 1,825       | 1,325,885        | 1,203            | 1,448,909        |
| Alabama.....          | 7           | 768              | 9           | 4,620            | 14          | 47,838           | 43               | 62,967           |
| California.....       | 62          | 8,841            | 45          | 21,291           | 70          | 281,609          | 162              | 503,986          |
| Connecticut.....      | 14          | 502              | 6           | 406              | 12          | 4,742            | 31               | 71,922           |
| Delaware.....         | 27          | 10,834           | 18          | 9,158            | 8           | 17,588           | 21               | 42,365           |
| Florida.....          | 102         | 7,994            | 11          | 652              | 15          | 34,360           | 62               | 109,553          |
| Georgia.....          | 3           | 221              |             |                  |             |                  | 36               | 38,528           |
| Illinois.....         |             |                  | 1           | 475              | 2           | 40               | ( <sup>2</sup> ) | ( <sup>2</sup> ) |
| Indiana.....          | 31          | 4,497            | 13          | 4,100            | 19          | 2,600            | 13               | 5,675            |
| Iowa.....             | 3           | 1,050            | 4           | 1,250            | 3           | 680              |                  |                  |
| Kentucky.....         | 18          | 4,885            | 40          | 18,843           | 45          | 37,233           | 8                | 1,990            |
| Louisiana.....        | 17          | 1,480            | 43          | 3,427            | 32          | 10,353           | 47               | 70,909           |
| Maine.....            | 67          | 4,622            | 23          | 6,009            | 30          | 21,137           | 82               | 87,804           |
| Maryland.....         | 34          | 7,466            | 31          | 16,299           | 30          | 149,184          | 104              | 153,795          |
| Massachusetts.....    | 43          | 38,427           | 40          | 5,924            | 24          | 42,364           | 93               | 122,050          |
| Michigan.....         | 29          | 26,868           | 9           | 8,810            | 7           | 18,286           | 131              | 208,602          |
| Minnesota.....        | 9           | 880              | 2           | 765              | 5           | 5,200            | ( <sup>2</sup> ) | ( <sup>2</sup> ) |
| Mississippi.....      | 2           | 195              | 7           | 925              | 14          | 950              | ( <sup>2</sup> ) | ( <sup>2</sup> ) |
| Missouri.....         |             |                  |             |                  | 12          | 6,500            |                  |                  |
| New Jersey.....       | 63          | 54,906           | 42          | 22,980           | 69          | 245,072          | 180              | 608,843          |
| New York.....         | 189         | 58,640           | 152         | 101,265          | 103         | 55,122           | 267              | 292,445          |
| North Carolina.....   |             |                  | 2           | 67               | 5           | 105              | 3                | 345              |
| Ohio.....             | 72          | 18,389           | 31          | 73,532           | 28          | 19,190           | 92               | 184,052          |
| Oregon.....           | 21          | 4,700            | 30          | 5,595            | 18          | 3,318            | 62               | 217,759          |
| Pennsylvania.....     | 204         | 40,314           | 148         | 59,309           | 154         | 174,730          | 178              | 670,277          |
| Rhode Island.....     | 3           | 72               | 4           | 80               | 5           | 193              | 7                | 305              |
| South Carolina.....   | 2           | 575              |             |                  |             |                  |                  |                  |
| Tennessee.....        | 10          | 3,300            | 12          | 2,420            | 17          | 1,317            |                  |                  |
| Texas.....            | 2           | 235              | 1           | 38               | 10          | 458              | 37               | 86,404           |
| Virginia.....         | 56          | 29,371           | 9           | 12,877           | 10          | 82,597           | 33               | 70,556           |
| Washington.....       | 97          | 9,906            | 44          | 8,945            | 25          | 50,710           | 195              | 634,272          |
| West Virginia.....    | 11          | 2,727            | 18          | 3,313            | 16          | 8,870            | 2                | 120              |
| Wisconsin.....        | 39          | 9,744            | 21          | 748              | 23          | 3,539            | 78               | 105,854          |
| All other States..... |             |                  |             |                  |             |                  | 66               | 138,431          |

<sup>1</sup> The figures in this table refer solely to vessels launched by establishments classified in the shipbuilding industry. For number and gross tonnage of vessels launched by establishments in other industries, see Table 5, p. 1138.

<sup>2</sup> Included in "All other States."

TABLE 8.—STEAM VESSELS LAUNCHED, BY NUMBER AND BY GROSS AND NET TONNAGE, BY STATES: 1919 TO 1925

| STATE AND CENSUS YEAR | Number | TONNAGE   |           | STATE AND CENSUS YEAR | Number | TONNAGE |         |
|-----------------------|--------|-----------|-----------|-----------------------|--------|---------|---------|
|                       |        | Gross     | Net       |                       |        | Gross   | Net     |
| United States:        |        |           |           | Michigan:             |        |         |         |
| 1925.....             | 69     | 169,857   | 95,511    | 1925.....             | 4      | 25,180  | 19,917  |
| 1923.....             | 73     | 210,406   | 130,269   | 1923.....             | 2      | 8,533   | 6,782   |
| 1921.....             | 196    | 1,120,063 | 665,944   | 1921.....             | 4      | 18,103  | 13,529  |
| 1919.....             | 1,203  | 4,010,724 | 2,366,772 | 1919.....             | 126    | 207,852 | 121,648 |
| Alabama:              |        |           |           | Minnesota:            |        |         |         |
| 1925.....             | 8      | 45,488    | 27,600    | 1925.....             | 1      | 140     | 140     |
| 1919.....             | 11     | 39,328    | 22,917    | New Jersey:           |        |         |         |
| California:           |        |           |           | 1925.....             | 4      | 45,955  | 30,290  |
| 1925.....             | 1      | 1,837     | 1,318     | 1923.....             | 4      | 8,593   | 6,333   |
| 1923.....             | 2      | 10,543    | 5,924     | 1921.....             | 22     | 225,420 | 152,332 |
| 1921.....             | 47     | 279,344   | 162,361   | 1919.....             | 160    | 603,543 | 321,661 |
| 1919.....             | 108    | 489,823   | 305,677   | New York:             |        |         |         |
| Connecticut:          |        |           |           | 1925.....             | 14     | 6,514   | 4,499   |
| 1923.....             | 1      | 329       | 164       | 1923.....             | 16     | 52,860  | 35,908  |
| 1921.....             | 3      | 630       | 424       | 1921.....             | 19     | 19,913  | 12,509  |
| 1919.....             | 19     | 59,735    | 39,645    | 1919.....             | 78     | 167,816 | 97,648  |
| Delaware:             |        |           |           | Ohio:                 |        |         |         |
| 1925.....             | 3      | 1,049     | 674       | 1925.....             | 6      | 15,909  | 12,425  |
| 1923.....             | 5      | 5,469     | 2,734     | 1923.....             | 11     | 69,731  | 48,727  |
| 1921.....             | 5      | 16,835    | 10,108    | 1921.....             | 3      | 8,452   | 6,528   |
| 1919.....             | 16     | 38,865    | 23,517    | 1919.....             | 76     | 179,246 | 108,461 |
| Florida:              |        |           |           | Oregon:               |        |         |         |
| 1925.....             | 3      | 350       | 310       | 1923.....             | 1      | 568     | 442     |
| 1921.....             | 3      | 33,400    | 14,089    | 1919.....             | 47     | 186,754 | 115,698 |
| 1919.....             | 21     | 92,896    | 57,930    | Pennsylvania:         |        |         |         |
| Georgia:              |        |           |           | 1923.....             | 7      | 22,203  | 4,320   |
| 1925.....             | 1      | 200       | 190       | 1921.....             | 25     | 134,294 | 87,876  |
| 1919.....             | 33     | 32,852    | 7,509     | 1919.....             | 123    | 654,252 | 417,709 |
| Indiana:              |        |           |           | Rhode Island:         |        |         |         |
| 1925.....             | 5      | 1,723     | 1,200     | 1923.....             | 1      | 25      | 16      |
| 1923.....             | 2      | 700       | 550       | South Carolina:       |        |         |         |
| 1921.....             | 2      | 500       | 335       | 1925.....             | 2      | 1,575   | -----   |
| Iowa:                 |        |           |           | Tennessee:            |        |         |         |
| 1923.....             | 1      | 250       | 170       | 1925.....             | 3      | 400     | 250     |
| 1921.....             | 1      | 300       | 180       | Texas:                |        |         |         |
| Kentucky:             |        |           |           | 1919.....             | 14     | 37,379  | 22,628  |
| 1925.....             | 1      | 116       | 116       | Virginia:             |        |         |         |
| 1923.....             | 2      | 251       | 145       | 1925.....             | 4      | 24,745  | 17,217  |
| 1921.....             | 3      | 559       | 408       | 1923.....             | 2      | 11,600  | 8,686   |
| Louisiana:            |        |           |           | 1921.....             | 5      | 82,506  | 33,696  |
| 1925.....             | 1      | 21        | 19        | 1919.....             | 14     | 69,595  | 44,086  |
| 1923.....             | 1      | 371       | 148       | Washington:           |        |         |         |
| 1921.....             | 1      | 195       | 175       | 1925.....             | 6      | 384     | 243     |
| 1919.....             | 19     | 56,375    | 12,406    | 1923.....             | 2      | 4,867   | 2,917   |
| Maine:                |        |           |           | 1921.....             | 7      | 46,144  | 15,627  |
| 1925.....             | 2      | 1,482     | 608       | 1919.....             | 114    | 593,189 | 406,131 |
| 1923.....             | 4      | 3,359     | 1,436     | West Virginia:        |        |         |         |
| 1921.....             | 3      | 12,990    | 9,660     | 1925.....             | 4      | 1,155   | 791     |
| 1919.....             | 19     | 40,387    | 23,436    | 1923.....             | 1      | 350     | 225     |
| Maryland:             |        |           |           | 1921.....             | 10     | 7,050   | 3,872   |
| 1925.....             | 1      | 379       | 238       | Wisconsin:            |        |         |         |
| 1923.....             | 4      | 9,390     | 5,471     | 1925.....             | 2      | 6,743   | 5,071   |
| 1921.....             | 18     | 146,860   | 89,213    | 1923.....             | 3      | 245     | 59      |
| 1919.....             | 33     | 129,900   | 78,635    | 1921.....             | 1      | 1,408   | 808     |
| Massachusetts:        |        |           |           | 1919.....             | 74     | 104,654 | 61,730  |
| 1925.....             | 1      | 135,000   | -----     | All other States:     |        |         |         |
| 1923.....             | 1      | 164       | 112       | 1919.....             | 46     | 118,301 | 76,321  |
| 1921.....             | 6      | 39,672    | 24,610    |                       |        |         |         |
| 1919.....             | 52     | 107,982   | 1,379     |                       |        |         |         |

<sup>1</sup> Displacement tonnage.

TABLE 9.—MOTOR VESSELS AND SAIL VESSELS WITH AUXILIARY POWER LAUNCHED, BY NUMBER AND BY GROSS AND NET TONNAGE, BY STATES: 1919 TO 1925

| STATE AND CENSUS YEAR       | Number | TONNAGE   |         | STATE AND CENSUS YEAR | Number | TONNAGE |         |
|-----------------------------|--------|-----------|---------|-----------------------|--------|---------|---------|
|                             |        | Gross     | Net     |                       |        | Gross   | Net     |
| United States:              |        |           |         | Minnesota:            |        |         |         |
| 1925.....                   | 512    | 22, 778   | 14, 492 | 1925.....             | 1      | 5       | 5       |
| 1923.....                   | 241    | 24, 001   | 12, 118 | Mississippi:          |        |         |         |
| 1921.....                   | 174    | 21, 885   | 12, 891 | 1921.....             | 7      | 2 363   | -----   |
| 1919.....                   | 1 268  | 1 74, 928 | 44, 919 | Missouri:             |        |         |         |
| Motor:                      |        |           |         | 1921.....             | 10     | 2, 500  | 2, 000  |
| 1925.....                   | 375    | 18, 241   | 10, 961 | New Jersey:           |        |         |         |
| 1923.....                   | 199    | 22, 389   | 11, 176 | 1925.....             | 39     | 1, 652  | 1, 256  |
| 1921.....                   | 145    | 19, 088   | 10, 829 | 1923.....             | 15     | 4, 185  | 2, 514  |
| 1919.....                   | 241    | 57, 174   | 29, 565 | 1921.....             | 16     | 4, 446  | 2, 636  |
| Sail, with auxiliary power: |        |           |         | 1919.....             | 16     | 785     | 64      |
| 1925.....                   | 137    | 4, 537    | 3, 531  | New York:             |        |         |         |
| 1923.....                   | 42     | 1, 612    | 942     | 1925.....             | 65     | 2, 053  | 1, 266  |
| 1921.....                   | 29     | 2, 797    | 2, 062  | 1923.....             | 38     | 1, 152  | 851     |
| 1919.....                   | 1 27   | 1 17, 754 | 15, 354 | 1921.....             | 21     | 900     | 535     |
| Alabama:                    |        |           |         | 1919.....             | 25     | 3, 070  | 1, 827  |
| 1925.....                   | 1      | 60        | 45      | North Carolina:       |        |         |         |
| California:                 |        |           |         | 1923.....             | 2      | 67      | 45      |
| 1925.....                   | 46     | 3, 095    | 1, 994  | 1921.....             | 2      | 75      | 50      |
| 1923.....                   | 21     | 7, 141    | 4, 334  | 1919.....             | 2      | 85      | 55      |
| 1921.....                   | 15     | 380       | 248     | Ohio:                 |        |         |         |
| 1919.....                   | 36     | 7, 047    | 662     | 1925.....             | 61     | 880     | 627     |
| Connecticut:                |        |           |         | 1923.....             | 7      | 291     | 192     |
| 1925.....                   | 14     | 502       | 367     | 1921.....             | 2      | 38      | 31      |
| 1923.....                   | 5      | 77        | 64      | 1919.....             | 1      | 6       | 4       |
| 1921.....                   | 9      | 4, 112    | 81      | Oregon:               |        |         |         |
| 1919.....                   | 7      | 3, 540    | 25      | 1925.....             | 5      | 94      | 63      |
| Delaware:                   |        |           |         | 1923.....             | 9      | 392     | 232     |
| 1925.....                   | 9      | 225       | 17      | 1921.....             | 2      | 51      | 35      |
| 1923.....                   | 4      | 509       | 344     | 1919.....             | 2      | 36      | 24      |
| 1921.....                   | 2      | 488       | 377     | Pennsylvania:         |        |         |         |
| Florida:                    |        |           |         | 1925.....             | 4      | 589     | 255     |
| 1925.....                   | 7      | 329       | 150     | 1923.....             | 3      | 112     | 76      |
| 1923.....                   | 8      | 462       | 317     | 1921.....             | 2      | 81      | 24      |
| 1921.....                   | 2      | 12        | 10      | 1919.....             | 3      | 373     | 335     |
| 1919.....                   | 20     | 4, 203    | 3, 133  | Rhode Island:         |        |         |         |
| Georgia:                    |        |           |         | 1925.....             | 3      | 72      | 41      |
| 1925.....                   | 2      | 21        | 9       | 1923.....             | 3      | 55      | 36      |
| Indiana:                    |        |           |         | 1921.....             | 5      | 193     | 130     |
| 1925.....                   | 1      | 190       | 130     | 1919.....             | 6      | 205     | 140     |
| Iowa:                       |        |           |         | Tennessee:            |        |         |         |
| 1921.....                   | 1      | 10        | 7       | 1925.....             | 3      | 250     | 150     |
| Kentucky:                   |        |           |         | 1921.....             | 2      | 51      | 40      |
| 1925.....                   | 1      | 119       | 91      | Texas:                |        |         |         |
| 1923.....                   | 3      | 60        | 40      | 1923.....             | 1      | 38      | 30      |
| 1921.....                   | 1      | 24        | 15      | 1921.....             | 1      | 18      | 9       |
| Louisiana:                  |        |           |         | 1919.....             | 9      | 17, 031 | 15, 625 |
| 1925.....                   | 7      | 561       | 550     | Virginia:             |        |         |         |
| 1923.....                   | 3      | 42        | 27      | 1925.....             | 34     | 999     | 763     |
| 1921.....                   | 4      | 175       | 103     | 1923.....             | 3      | 335     | 135     |
| 1919.....                   | 7      | 712       | 462     | 1921.....             | 5      | 91      | 64      |
| Maine:                      |        |           |         | 1919.....             | 14     | 401     | 240     |
| 1925.....                   | 64     | 3, 120    | 2, 437  | Washington:           |        |         |         |
| 1923.....                   | 14     | 328       | 168     | 1925.....             | 45     | 3, 078  | 2, 138  |
| 1921.....                   | 19     | 793       | 660     | 1923.....             | 20     | 1, 015  | 742     |
| 1919.....                   | 22     | 3, 179    | 2, 423  | 1921.....             | 9      | 3, 536  | 3, 401  |
| Maryland:                   |        |           |         | 1919.....             | 47     | 17, 834 | 13, 971 |
| 1925.....                   | 11     | 593       | 398     | West Virginia:        |        |         |         |
| 1923.....                   | 17     | 1, 065    | 644     | 1925.....             | 1      | 236     | 83      |
| 1921.....                   | 4      | 149       | 119     | 1923.....             | 4      | 502     | 256     |
| 1919.....                   | 9      | 166       | 126     | Wisconsin:            |        |         |         |
| Massachusetts:              |        |           |         | 1925.....             | 31     | 490     | 265     |
| 1925.....                   | 32     | 1, 927    | 1, 242  | 1923.....             | 16     | 263     | 181     |
| 1923.....                   | 38     | 5, 608    | 746     | 1921.....             | 17     | 1, 111  | 720     |
| 1921.....                   | 13     | 2, 155    | 1, 501  | 1919.....             | 1      | 50      | 30      |
| 1919.....                   | 35     | 8, 999    | 578     | All other States:     |        |         |         |
| Michigan:                   |        |           |         | 1919.....             | 6      | 7, 206  | 5, 195  |
| 1925.....                   | 25     | 1, 688    | 150     |                       |        |         |         |
| 1923.....                   | 7      | 272       | 144     |                       |        |         |         |
| 1921.....                   | 3      | 183       | 95      |                       |        |         |         |

<sup>1</sup> Not including 1 sail vessel with auxiliary power, of 1,488 gross tons, launched by an establishment not classified in the shipbuilding industry.

<sup>2</sup> Displacement tonnage.



TABLE 10.—MOTOR VESSELS LAUNCHED, BY NUMBER AND BY GROSS AND NET TONNAGE, BY STATES: 1925

| STATE            | Num-<br>ber | TONNAGE |        | STATE              | Num-<br>ber | TONNAGE |       |
|------------------|-------------|---------|--------|--------------------|-------------|---------|-------|
|                  |             | Gross   | Net    |                    |             | Gross   | Net   |
| United States:   |             |         |        | Maryland.....      | 11          | 593     | 398   |
| 1925.....        | 375         | 18,241  | 10,961 | Massachusetts..... | 21          | 1,200   | 802   |
| 1923.....        | 199         | 22,389  | 11,176 | Michigan.....      | 25          | 1,688   | 150   |
| 1921.....        | 145         | 19,088  | 10,829 | Minnesota.....     | 1           | 5       | 5     |
| 1919.....        | 241         | 57,174  | 29,565 | New Jersey.....    | 37          | 1,579   | 1,210 |
| Alabama.....     | 1           | 60      | 45     | New York.....      | 62          | 1,945   | 1,186 |
| California.....  | 45          | 3,087   | 1,989  | Ohio.....          | 8           | 244     | 150   |
| Connecticut..... | 14          | 502     | 367    | Oregon.....        | 5           | 94      | 63    |
| Delaware.....    | 9           | 225     | 17     | Pennsylvania.....  | 4           | 539     | 255   |
| Florida.....     | 6           | 248     | 75     | Rhode Island.....  | 2           | 54      | 26    |
| Georgia.....     | 2           | 21      | 9      | Tennessee.....     | 3           | 250     | 150   |
| Indiana.....     | 1           | 190     | 130    | Virginia.....      | 9           | 594     | 378   |
| Kentucky.....    | 1           | 119     | 91     | Washington.....    | 44          | 3,072   | 2,134 |
| Louisiana.....   | 7           | 561     | 550    | West Virginia..... | 1           | 236     | 83    |
| Maine.....       | 25          | 645     | 433    | Wisconsin.....     | 31          | 490     | 265   |

TABLE 11.—SAIL VESSELS WITH AUXILIARY POWER LAUNCHED, BY NUMBER AND BY GROSS AND NET TONNAGE, BY STATES: 1925

| STATE           | Num-<br>ber | TONNAGE |        | STATE              | Num-<br>ber | TONNAGE |     |
|-----------------|-------------|---------|--------|--------------------|-------------|---------|-----|
|                 |             | Gross   | Net    |                    |             | Gross   | Net |
| United States:  |             |         |        | Massachusetts..... | 11          | 727     | 440 |
| 1925.....       | 137         | 4,537   | 3,531  | New Jersey.....    | 2           | 73      | 46  |
| 1923.....       | 42          | 1,612   | 942    | New York.....      | 3           | 108     | 80  |
| 1921.....       | 29          | 2,797   | 2,062  | Ohio.....          | 53          | 636     | 477 |
| 1919.....       | 127         | 17,754  | 15,354 | Rhode Island.....  | 1           | 18      | 15  |
| California..... | 1           | 8       | 5      | Virginia.....      | 25          | 405     | 385 |
| Florida.....    | 1           | 81      | 75     | Washington.....    | 1           | 6       | 4   |
| Maine.....      | 39          | 2,475   | 2,004  |                    |             |         |     |

<sup>1</sup> Not including 1 vessel of 1,488 tons launched by an establishment not classified in the shipbuilding industry.

TABLE 12.—SAIL VESSELS WITHOUT AUXILIARY POWER LAUNCHED, BY NUMBER AND BY GROSS AND NET TONNAGE, BY STATES: 1925

| STATE          | Num-<br>ber | TONNAGE |        | STATE           | Num-<br>ber | TONNAGE |     |
|----------------|-------------|---------|--------|-----------------|-------------|---------|-----|
|                |             | Gross   | Net    |                 |             | Gross   | Net |
| United States: |             |         |        | California..... | 1           | 50      | 45  |
| 1925.....      | 7           | 283     | 214    | Florida.....    | 1           | 77      | 73  |
| 1923.....      | 5           | 485     | 316    | Maine.....      | 1           | 20      | 14  |
| 1921.....      | 9           | 4,738   | 4,116  | New Jersey..... | 2           | 120     | 72  |
| 1919.....      | 157         | 163,091 | 54,119 | Wisconsin.....  | 2           | 16      | 10  |

<sup>1</sup> Not including 1 vessel of 1,488 tons launched by an establishment not classified in the shipbuilding industry.

TABLE 13.—UNRIGGED VESSELS LAUNCHED, BY NUMBER AND BY GROSS AND NET TONNAGE, BY STATES: 1919 TO 1925

| STATE AND CENSUS YEAR | Number | TONNAGE |         | STATE AND CENSUS YEAR | Number | TONNAGE |         |
|-----------------------|--------|---------|---------|-----------------------|--------|---------|---------|
|                       |        | Gross   | Net     |                       |        | Gross   | Net     |
| United States:        |        |         |         | Mississippi:          |        |         |         |
| 1925.....             | 649    | 159,491 | 147,772 | 1925.....             | 2      | 195     | 195     |
| 1923.....             | 497    | 159,231 | 145,545 | 1923.....             | 7      | 925     | 925     |
| 1921.....             | 446    | 179,199 | 172,595 | 1921.....             | 7      | 587     | 587     |
| 1919.....             | 505    | 341,066 | 322,294 | Missouri:             |        |         |         |
| Alabama:              |        |         |         | 1921.....             | 2      | 4,000   | 3,870   |
| 1925.....             | 6      | 708     | 708     | New Jersey:           |        |         |         |
| 1923.....             | 9      | 4,620   | 4,620   | 1925.....             | 18     | 7,179   | 5,489   |
| 1921.....             | 6      | 2,350   | 2,130   | 1923.....             | 21     | 10,077  | 7,669   |
| 1919.....             | 32     | 23,639  | 21,660  | 1921.....             | 30     | 15,146  | 15,146  |
| California:           |        |         |         | 1919.....             | 4      | 4,515   | 4,515   |
| 1925.....             | 14     | 3,859   | 3,418   | New York:             |        |         |         |
| 1923.....             | 22     | 3,607   | 3,131   | 1925.....             | 110    | 50,073  | 48,088  |
| 1921.....             | 8      | 1,855   | 1,850   | 1923.....             | 98     | 47,223  | 39,727  |
| 1919.....             | 14     | 2,943   | 2,873   | 1921.....             | 63     | 34,309  | 31,489  |
| Connecticut:          |        |         |         | 1919.....             | 162    | 118,135 | 117,497 |
| 1919.....             | 4      | 7,100   | 3,740   | North Carolina:       |        |         |         |
| Delaware:             |        |         |         | 1921.....             | 3      | 30      | 30      |
| 1925.....             | 15     | 9,560   | 9,560   | Ohio:                 |        |         |         |
| 1923.....             | 9      | 3,180   | 3,180   | 1925.....             | 5      | 1,600   | 1,550   |
| 1921.....             | 5      | 265     | 265     | 1923.....             | 13     | 3,510   | 3,460   |
| 1919.....             | 5      | 3,500   | 1,750   | 1921.....             | 23     | 10,700  | 10,700  |
| Florida:              |        |         |         | 1919.....             | 15     | 4,800   | 4,800   |
| 1925.....             | 91     | 7,238   | 7,175   | Oregon:               |        |         |         |
| 1923.....             | 3      | 190     | 170     | 1925.....             | 16     | 4,606   | 4,108   |
| 1921.....             | 10     | 948     | 898     | 1923.....             | 20     | 4,635   | 4,415   |
| 1919.....             | 17     | 10,690  | 10,529  | 1921.....             | 15     | 2,420   | 2,420   |
| Illinois:             |        |         |         | 1919.....             | 12     | 29,241  | 28,262  |
| 1923.....             | 1      | 475     | 475     | Pennsylvania:         |        |         |         |
| 1921.....             | 2      | 40      | 40      | 1925.....             | 200    | 39,775  | 37,900  |
| Indiana:              |        |         |         | 1923.....             | 138    | 36,994  | 34,935  |
| 1925.....             | 25     | 2,584   | 1,717   | 1921.....             | 127    | 40,405  | 39,646  |
| 1923.....             | 11     | 3,400   | 3,350   | 1919.....             | 52     | 15,652  | 15,622  |
| 1921.....             | 17     | 2,100   | 2,092   | Tennessee:            |        |         |         |
| 1919.....             | 13     | 5,675   | 5,675   | 1925.....             | 4      | 2,650   | 2,200   |
| Iowa:                 |        |         |         | 1923.....             | 12     | 2,420   | 2,420   |
| 1925.....             | 3      | 1,050   | 1,050   | 1921.....             | 15     | 1,266   | 1,266   |
| 1923.....             | 3      | 1,000   | 1,000   | Texas:                |        |         |         |
| 1921.....             | 1      | 370     | 300     | 1925.....             | 2      | 1,235   | -----   |
| Kentucky:             |        |         |         | 1921.....             | 9      | 440     | 440     |
| 1925.....             | 16     | 4,650   | 4,650   | 1919.....             | 12     | 27,544  | 26,594  |
| 1923.....             | 35     | 18,532  | 18,055  | Virginia:             |        |         |         |
| 1921.....             | 41     | 36,650  | 36,650  | 1925.....             | 18     | 3,627   | 3,607   |
| 1919.....             | 7      | 1,970   | 1,970   | 1923.....             | 4      | 942     | 942     |
| Louisiana:            |        |         |         | 1921.....             | 5      | 560     | 560     |
| 1925.....             | 9      | 898     | 834     | Washington:           |        |         |         |
| 1923.....             | 39     | 3,014   | 3,014   | 1925.....             | 46     | 6,444   | 6,114   |
| 1921.....             | 27     | 9,983   | 9,850   | 1923.....             | 22     | 3,063   | 3,048   |
| 1919.....             | 21     | 13,822  | 13,563  | 1921.....             | 9      | 1,030   | 1,030   |
| Maine:                |        |         |         | 1919.....             | 29     | 11,772  | 11,772  |
| 1923.....             | 3      | 2,114   | 1,959   | West Virginia:        |        |         |         |
| 1921.....             | 4      | 3,940   | 3,627   | 1925.....             | 6      | 1,336   | 850     |
| 1919.....             | 15     | 16,677  | 15,822  | 1923.....             | 13     | 2,461   | 2,201   |
| Maryland:             |        |         |         | 1921.....             | 6      | 1,820   | 1,199   |
| 1925.....             | 22     | 6,494   | 6,364   | 1919.....             | 2      | 120     | 120     |
| 1923.....             | 10     | 5,844   | 5,844   | Wisconsin:            |        |         |         |
| 1921.....             | 8      | 2,175   | 1,945   | 1925.....             | 4      | 2,495   | 1,460   |
| 1919.....             | 60     | 21,582  | 20,098  | 1923.....             | 2      | 240     | 240     |
| Massachusetts:        |        |         |         | 1921.....             | 5      | 1,020   | 1,020   |
| 1925.....             | 10     | 1,500   | -----   | 1919.....             | 3      | 1,150   | 1,150   |
| 1921.....             | 2      | 120     | 120     | All other States:     |        |         |         |
| Michigan:             |        |         |         | 1919.....             | 16     | 19,229  | 17,972  |
| 1919.....             | 5      | 750     | 750     |                       |        |         |         |
| Minnesota:            |        |         |         |                       |        |         |         |
| 1925.....             | 7      | 735     | 735     |                       |        |         |         |
| 1923.....             | 2      | 765     | 765     |                       |        |         |         |
| 1921.....             | 5      | 5,200   | 3,985   |                       |        |         |         |

¹ Displacement tonnage.

TABLE 14.—NUMBER OF POWER BOATS (LESS THAN 5 GROSS TONS) BUILT, BY STATES: 1919 TO 1925

| STATE                     | 1925  | 1923 | 1921 | 1919  | STATE               | 1925 | 1923 | 1921 | 1919 |
|---------------------------|-------|------|------|-------|---------------------|------|------|------|------|
| United States.....        | 1,369 | 939  | 808  | 1,159 | Michigan.....       | 222  | 87   | 41   | 50   |
| Alabama.....              |       | 3    | 1    | 2     | Minnesota.....      | 25   | 17   | 27   | 149  |
| California.....           | 128   | 48   | 55   | 108   | Mississippi.....    | 5    | 1    | 1    | 1    |
| Connecticut.....          | 16    | 23   | 12   | 18    | Missouri.....       | 10   |      |      |      |
| Delaware.....             | 5     | 4    | 1    | 5     | New Jersey.....     | 269  | 244  | 102  | 130  |
| District of Columbia..... | 2     |      |      |       | New York.....       | 244  | 140  | 291  | 97   |
| Florida.....              | 105   | 59   | 45   | 90    | North Carolina..... | 1    | 1    | 4    | 1    |
| Georgia.....              |       | 2    | 1    | 1     | Ohio.....           | 21   | 3    | 10   | 4    |
| Illinois.....             | 19    | 8    | 35   | 18    | Oregon.....         | 29   | 18   | 15   | 49   |
| Indiana.....              | 1     | 1    | 1    | 5     | Pennsylvania.....   | 13   | 14   | 9    | 164  |
| Iowa.....                 | 3     | 2    | 4    | 7     | Rhode Island.....   | 4    | 60   | 3    | 2    |
| Kentucky.....             | 1     | 4    | 1    | 3     | Tennessee.....      |      | 1    |      |      |
| Louisiana.....            | 3     | 1    | 6    | 2     | Texas.....          |      | 2    | 1    | 7    |
| Maine.....                | 35    | 25   | 18   | 57    | Virginia.....       | 75   | 1    | 3    | 15   |
| Maryland.....             | 5     | 10   | 1    | 28    | Washington.....     | 33   | 9    | 3    | 43   |
| Massachusetts.....        | 65    | 98   | 61   | 58    | Wisconsin.....      | 30   | 53   | 56   | 45   |

TABLE 15.—AMOUNT RECEIVED FOR REPAIR WORK, BY STATES: 1919 TO 1925

| STATE                     | 1925           | 1923            | 1921            | 1919            |
|---------------------------|----------------|-----------------|-----------------|-----------------|
| United States.....        | \$89, 123, 217 | \$112, 548, 461 | \$104, 041, 512 | \$183, 721, 737 |
| Alabama.....              | 2, 294, 517    | 2, 560, 491     | 2, 306, 750     | 2, 245, 966     |
| Arizona.....              |                |                 | 5, 000          |                 |
| California.....           | 7, 929, 712    | 14, 973, 168    | 8, 189, 726     | 12, 559, 965    |
| Connecticut.....          | 539, 907       | 734, 946        | 548, 778        | 893, 105        |
| Delaware.....             | 373, 560       | 45, 562         | 96, 399         | 873, 764        |
| District of Columbia..... |                | 150             |                 |                 |
| Florida.....              | 2, 078, 213    | 1, 546, 239     | 1, 541, 498     | 2, 777, 261     |
| Georgia.....              | 239, 830       | 250, 532        | 387, 561        | 444, 009        |
| Idaho.....                |                | 11, 235         | 7, 480          |                 |
| Illinois.....             | 769, 146       | 647, 381        | 798, 874        | 1, 207, 141     |
| Indiana.....              | 174, 688       | 105, 405        | 195, 354        | 83, 740         |
| Iowa.....                 | 720            | 1, 650          | 66, 648         | (1)             |
| Kentucky.....             | 209, 940       | 312, 972        | 301, 927        | 302, 042        |
| Louisiana.....            | 2, 730, 110    | 2, 752, 777     | 3, 760, 488     | 2, 200, 136     |
| Maine.....                | 308, 146       | 462, 086        | 620, 473        | 1, 686, 220     |
| Maryland.....             | 4, 218, 419    | 5, 767, 783     | 6, 018, 709     | 12, 279, 775    |
| Massachusetts.....        | 5, 899, 327    | 2, 269, 087     | 2, 925, 930     | 3, 899, 114     |
| Michigan.....             | 2, 367, 100    | 1, 619, 564     | 1, 342, 616     | 1, 567, 132     |
| Minnesota.....            | 165, 070       | 199, 062        | 508, 447        | 247, 211        |
| Mississippi.....          | 86, 491        | 66, 846         | 56, 273         | 100, 981        |
| Missouri.....             | 4, 660         | 17, 479         | 8, 929          | (1)             |
| New Jersey.....           | 12, 047, 944   | 22, 018, 436    | 19, 981, 055    | 33, 033, 934    |
| New Hampshire.....        |                |                 | 1, 000          | (1)             |
| New York.....             | 23, 741, 340   | 27, 130, 893    | 35, 919, 142    | 72, 612, 037    |
| North Carolina.....       | 22, 437        | 33, 310         | 91, 617         | 272, 774        |
| Ohio.....                 | 4, 468, 230    | 3, 925, 685     | 5, 484, 559     | 4, 463, 943     |
| Oregon.....               | 479, 957       | 964, 570        | 310, 114        | 243, 291        |
| Pennsylvania.....         | 3, 625, 221    | 5, 377, 614     | 2, 266, 871     | 5, 004, 055     |
| Rhode Island.....         | 2, 066, 165    | 2, 225, 301     | 1, 988, 215     | 2, 002, 529     |
| South Carolina.....       | 179, 229       | 520, 688        | 472, 094        | 783, 731        |
| Tennessee.....            | 24, 082        | 14, 982         | 27, 805         | (1)             |
| Texas.....                | 1, 377, 897    | 926, 025        | 1, 331, 237     | 793, 585        |
| Vermont.....              | 52, 880        | 35, 764         | 29, 045         | (1)             |
| Virginia.....             | 5, 184, 829    | 9, 365, 740     | 3, 055, 175     | 13, 371, 745    |
| Washington.....           | 3, 020, 479    | 3, 339, 368     | 1, 908, 957     | 5, 320, 346     |
| West Virginia.....        | 123, 644       | 221, 554        | 341, 882        | 221, 119        |
| Wisconsin.....            | 2, 229, 177    | 2, 092, 266     | 1, 169, 884     | 2, 136, 990     |
| All other States.....     |                |                 |                 | 588, 098        |

1 Included with figures for "All other States"

TABLE 16.—GENERAL STATISTICS FOR THE INDUSTRY AND ITS BRANCHES, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| GROUP AND STATE                      | Num-ber of estab-lish-ments | PERSONS ENGAGED IN THE INDUSTRY |                                |                                  |                               | Horse-power  | Salaries     | Wages       | Paid for contract work | Cost of materials | Value of products | Value added by manu-facture <sup>1</sup> |
|--------------------------------------|-----------------------------|---------------------------------|--------------------------------|----------------------------------|-------------------------------|--------------|--------------|-------------|------------------------|-------------------|-------------------|--|
|                                      |                             | Total                           | Pro-prietors and firm mem-bers | Salaried officers and em-ployees | Wage earners (average number) |              |              |             |                        |                   |                   |  |
|                                      |                             |                                 |                                |                                  |                               |              |              |             |                        |                   |                   |  |
| SHIPBUILDING—THE INDUSTRY AS A WHOLE |                             |                                 |                                |                                  |                               |              |              |             |                        |                   |                   |  |
| United States                        |                             |                                 |                                |                                  |                               |              |              |             |                        |                   |                   |  |
|                                      | 565                         | 55,724                          | 341                            | 25,159                           | 303,470                       | \$13,049,279 | \$74,275,019 | \$1,513,670 | \$66,298,964           | \$177,181,960     |                   | \$110,882,996                            |
| California.....                      | 51                          | 4,263                           | 49                             | 495                              | 48,763                        | 1,353,776    | 5,482,998    | 232,268     | 5,168,935              | 14,164,489        |                   | 8,995,554                                |
| Connecticut.....                     | 19                          | 736                             | 10                             | 51                               | 2,182                         | 136,369      | 1,025,868    | 500         | 744,291                | 2,107,003         |                   | 1,362,712                                |
| Delaware.....                        | 7                           | 817                             | —                              | 125                              | 7,817                         | 252,645      | 904,764      | 13,854      | 1,172,645              | 2,508,746         |                   | 1,336,101                                |
| Florida.....                         | 23                          | 1,101                           | 20                             | 96                               | 4,560                         | 233,823      | 1,337,185    | 27,580      | 1,232,645              | 3,380,555         |                   | 2,148,471                                |
| Georgia.....                         | 3                           | 133                             | 1                              | 8                                | 17,840                        | 17,840       | 137,927      | 750         | 100,559                | 286,380           |                   | 185,821                                  |
| Illinois.....                        | 11                          | 296                             | 12                             | 20                               | 2,803                         | 46,663       | 362,002      | 2,650       | 250,894                | 849,124           |                   | 598,230                                  |
| Kentucky.....                        | 3                           | 161                             | —                              | 9                                | 89                            | 17,606       | 141,669      | —           | 117,078                | 298,011           |                   | 180,933                                  |
| Louisiana.....                       | 14                          | 1,015                           | 8                              | 110                              | 5,120                         | 333,615      | 1,269,145    | 26,969      | 812,127                | 3,100,211         |                   | 2,288,084                                |
| Maine.....                           | 28                          | 695                             | 23                             | 66                               | 4,527                         | 143,202      | 765,932      | 7,520       | 907,012                | 1,967,526         |                   | 1,000,514                                |
| Maryland.....                        | 24                          | 1,893                           | 7                              | 190                              | 21,917                        | 376,774      | 2,411,995    | 50,210      | 2,259,691              | 6,171,717         |                   | 3,912,026                                |
| Massachusetts.....                   | 41                          | 4,485                           | 32                             | 286                              | 6,852                         | 585,758      | 6,954,277    | 5,098       | 5,558,093              | 14,187,348        |                   | 8,629,255                                |
| Michigan.....                        | 18                          | 1,736                           | 5                              | 130                              | 6,151                         | 444,715      | 2,598,076    | 6,029       | 2,780,214              | 7,180,772         |                   | 4,400,558                                |
| Minnesota.....                       | 10                          | 1,145                           | 10                             | 11                               | 1,224                         | 24,486       | 175,342      | 1,323       | 205,725                | 7,513,217         |                   | 4,307,492                                |
| Mississippi.....                     | 4                           | 56                              | 2                              | 4                                | 135                           | 5,160        | 38,837       | —           | 34,637                 | 93,904            |                   | 50,267                                   |
| New Jersey.....                      | 45                          | 8,655                           | 31                             | 972                              | 40,721                        | 2,259,367    | 12,310,783   | 24,476      | 11,464,672             | 27,413,619        |                   | 15,948,947                               |
| New York.....                        | 96                          | 10,536                          | 39                             | 937                              | 50,483                        | 2,575,713    | 15,715,783   | 319,988     | 11,680,957             | 35,535,308        |                   | 23,854,351                               |
| Ohio.....                            | 21                          | 2,044                           | 15                             | 120                              | 17,727                        | 341,348      | 2,823,098    | 58,464      | 2,220,786              | 7,466,620         |                   | 5,245,834                                |
| Oregon.....                          | 12                          | 253                             | 8                              | 19                               | 785                           | 62,055       | 306,948      | 200         | 339,894                | 7,767,598         |                   | 4,327,734                                |
| Pennsylvania.....                    | 19                          | 4,559                           | 7                              | 427                              | 31,284                        | 1,319,464    | 5,360,989    | 55,956      | 5,273,853              | 12,037,895        |                   | 6,764,042                                |
| Rhode Island.....                    | 8                           | 703                             | 5                              | 87                               | 1,097                         | 152,317      | 831,140      | 564         | 641,980                | 2,337,486         |                   | 1,691,506                                |
| Texas.....                           | 9                           | 419                             | 8                              | 52                               | 1,175                         | 113,943      | 530,625      | 17,593      | 414,382                | 1,466,712         |                   | 1,052,330                                |
| Virginia.....                        | 24                          | 6,651                           | 18                             | 591                              | 27,608                        | 1,350,553    | 7,123,348    | 14,946      | 7,072,908              | 18,586,850        |                   | 10,913,442                               |
| Washington.....                      | 32                          | 1,189                           | 17                             | 84                               | 6,416                         | 172,942      | 1,856,706    | 620         | 1,457,382              | 4,082,684         |                   | 2,624,502                                |
| West Virginia.....                   | 5                           | 217                             | —                              | 20                               | 1,620                         | 183,181      | 1,237,401    | —           | 1,449,941              | 4,918,858         |                   | 4,408,917                                |
| Wisconsin.....                       | 15                          | 1,423                           | 5                              | 108                              | 6,183                         | 321,583      | 1,745,580    | 2,008,960   | 2,008,960              | 4,990,693         |                   | 2,990,703                                |
| All other States <sup>2</sup> .....  | 23                          | 1,543                           | 9                              | 122                              | 6,405                         | 284,431      | 1,817,271    | 82,092      | 1,329,064              | 4,764,734         |                   | 3,453,670                                |

## SHIPBUILDING, STEEL

| United States.....                            |     | 118    | 42,329 | 15  | 4,006  | 38,308 | 259,463   | 10,294,351 | 56,080,551 | 1,330,522 | 49,557,802 | 132,415,103 | 82,857,361 |
|---|-----|--------|--------|-----|--------|--------|-----------|------------|------------|-----------|------------|-------------|------------|
| California.....                               | 12  | 3,246  | 417    | 1   | 2,828  | 45,771 | 1,193,430 | 1,318,901  | 4,030,398  | 205,400   | 3,830,874  | 10,760,214  | 6,923,340  |
| Louisiana.....                                | 4   | 880    | 100    | --- | 780    | 4,654  | 318,901   | 1,171,213  | 29,552     | 29,552    | 682,646    | 2,824,371   | 2,141,725  |
| Maine.....                                    | 6   | 280    | 23     | 2   | 255    | 2,878  | 64,343    | 325,211    | 1,775      | 1,775     | 135,123    | 743,267     | 323,144    |
| Maryland.....                                 | 7   | 325    | 136    | --- | 1,180  | 20,166 | 267,794   | 1,804,071  | 44,904     | 44,904    | 1,579,567  | 4,549,547   | 2,963,993  |
| Michigan.....                                 | 5   | 1,409  | 94     | 1   | 1,314  | 5,257  | 331,902   | 2,147,218  | 2,147,218  | ---       | 2,207,369  | 5,732,057   | 3,524,658  |
| New Jersey.....                               | 10  | 6,900  | 836    | 2   | 6,062  | 34,996 | 1,871,781 | 9,912,695  | 23,277     | 23,277    | 8,906,951  | 20,753,280  | 11,846,329 |
| New York.....                                 | 18  | 6,769  | 600    | 1   | 6,168  | 38,723 | 1,638,526 | 10,329,624 | 230,288    | 230,288   | 6,975,880  | 22,251,854  | 13,753,954 |
| Ohio.....                                     | 7   | 1,819  | 107    | --- | 1,712  | 17,201 | 306,310   | 2,564,671  | 68,464     | 68,464    | 1,857,041  | 5,776,020   | 4,18,979   |
| Pennsylvania.....                             | 7   | 4,342  | 398    | 3   | 3,941  | 30,701 | 1,202,827 | 5,086,975  | 55,956     | 55,956    | 4,922,833  | 11,270,740  | 6,347,207  |
| All other States.....                         | 42  | 16,359 | 1,295  | 5   | 14,059 | 59,116 | 3,038,537 | 19,314,455 | 683,746    | 683,746   | 18,170,508 | 46,974,940  | 28,804,452 |
| SHIPBUILDING, WOODEN, INCLUDING BOAT BUILDING |     |        |        |     |        |        |           |            |            |           |            |             |            |
| United States.....                            |     | 447    | 13,395 | 328 | 1,153  | 11,916 | 44,007    | 2,754,928  | 17,588,488 | 153,148   | 16,741,162 | 44,766,707  | 28,025,635 |
| California.....                               | 30  | 1,017  | 48     | 48  | 78     | 891    | 2,992     | 100,346    | 1,452,600  | 26,778    | 1,332,061  | 3,404,275   | 2,072,214  |
| Georgia.....                                  | 3   | 133    | 8      | --- | 8      | 124    | 431       | 17,840     | 137,927    | 750       | 1,100,559  | 286,380     | 185,821    |
| Kentucky.....                                 | 3   | 163    | 9      | --- | 9      | 152    | 89        | 17,006     | 141,669    | ---       | 117,078    | 298,011     | 180,933    |
| Louisiana.....                                | 8   | 135    | 10     | --- | 10     | 117    | 406       | 14,714     | 97,932     | 417       | 120,481    | 275,840     | 146,359    |
| Maine.....                                    | 24  | 415    | 43     | 21  | 43     | 351    | 1,649     | 78,859     | 440,721    | 5,765     | 488,889    | 1,224,259   | 735,370    |
| Maryland.....                                 | 17  | 568    | 54     | 7   | 54     | 507    | 1,751     | 108,980    | 607,924    | 5,216     | 680,144    | 1,622,177   | 942,033    |
| Michigan.....                                 | 13  | 327    | 4      | 4   | 30     | 287    | 894       | 112,813    | 450,858    | 6,029     | 572,815    | 1,448,715   | 875,900    |
| Mississippi.....                              | 4   | 56     | 2      | --- | 2      | 50     | 135       | 5,160      | 38,837     | ---       | 34,637     | 93,904      | 59,267     |
| New Jersey.....                               | 35  | 1,755  | 29     | 136 | 136    | 1,580  | 5,725     | 387,586    | 2,398,088  | 1,199     | 2,557,721  | 6,060,339   | 4,102,618  |
| New York.....                                 | 78  | 3,767  | 38     | 38  | 337    | 3,392  | 11,762    | 937,187    | 5,386,159  | 89,700    | 4,705,077  | 13,303,474  | 8,508,397  |
| Ohio.....                                     | 14  | 295    | 15     | 13  | 13     | 303    | 624       | 35,038     | 298,427    | ---       | 363,745    | 891,000     | 527,255    |
| Pennsylvania.....                             | 12  | 217    | 29     | 29  | 29     | 194    | 583       | 56,637     | 274,014    | ---       | 351,020    | 767,855     | 416,835    |
| All other States.....                         | 197 | 4,610  | 140    | 396 | 396    | 4,074  | 17,006    | 822,162    | 5,903,332  | 47,294    | 5,307,935  | 14,490,568  | 9,182,633  |

<sup>1</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>2</sup> Not including 123 salaried officers and employees of central administrative offices, with salaries aggregating \$494,211. For purposes of comparison with the statistics published for earlier years, these figures should be added to those given in the table, making combined totals of 5,282 salaried officers and employees and \$13,543,490. (See "Central-administrative-office employees," p. 1193.)

<sup>3</sup> Alabama, 6 establishments; District of Columbia, 1; Indiana, 5; Iowa, 2; Missouri, 2; North Carolina, 2; South Carolina, 2; Tennessee, 2; Vermont, 1.  
<sup>4</sup> Alabama, 2 establishments; Connecticut, 1; Delaware, 2; Florida, 2; Illinois, 2; Indiana, 2; Iowa, 1; Massachusetts, 3; Minnesota, 1; Oregon, 2; Rhode Island, 1; South Carolina, 1; Tennessee, 1; Texas, 4; Vermont, 1; Virginia, 7; Washington, 2; West Virginia, 3; Wisconsin, 4.  
<sup>5</sup> Alabama, 4 establishments; Connecticut, 18; Delaware, 5; District of Columbia, 1; Florida, 2; Illinois, 9; Indiana, 3; Iowa, 1; Massachusetts, 38; Minnesota, 9; Missouri, 2; North Carolina, 2; Oregon, 10; Rhode Island, 7; South Carolina, 1; Tennessee, 1; Texas, 5; Virginia, 17; Washington, 30; West Virginia, 2; Wisconsin, 11.

## Group 15.—RAILROAD REPAIR SHOPS

### THE GROUP AS A WHOLE

This group comprises only two industries, "Car and general construction and repairs, steam-railroad repair shops" and "Car and general construction and repairs, electric-railroad repair shops."

The following table gives summary statistics for the group as a whole and for the separate industries:

#### SUMMARY FOR GROUP 15, RAILROAD REPAIR SHOPS: 1919 TO 1925

[Data for establishments reporting products valued at less than \$5,000 are included in the figures for 1919 but not in those for subsequent years]

| INDUSTRY  | Cen-<br>sus<br>year | Number<br>of<br>estab-<br>lish-<br>ments | Wage<br>earners<br>(average<br>number) | Wages   | Cost of<br>materials | Value of<br>products | Value<br>added by<br>manu-<br>facture | Horse<br>power |
|---|---------------------|--|--|---------|----------------------|----------------------|---------------------------------------|----------------|
|   |                     |  |  |         |                      |                      |                                       |                |
|   |                     |  |  |         |                      |                      |                                       |                |
| Total-----  | 1925                | 2,368                                    | 457,755                                | 668,192 | 563,646              | 1,332,679            | 769,033                               | 942,248        |
|   | 1923                | 2,348                                    | 523,430                                | 772,968 | 631,359              | 1,520,093            | 888,734                               | 1,798,005      |
|   | 1921                | 2,326                                    | 418,285                                | 671,956 | 506,571              | 1,267,342            | 760,771                               | (2)            |
|   | 1919                | 2,368                                    | 515,709                                | 726,691 | 547,829              | 1,354,446            | 806,617                               | 644,875        |
| Car and general construction and repairs, electric-railroad repair shops. | 1925                | 521                                      | 32,521                                 | 48,358  | 29,738               | 83,812               | 54,074                                | 70,479         |
|   | 1923                | 547                                      | 34,925                                 | 49,226  | 31,982               | 86,413               | 54,431                                | 62,370         |
|   | 1921                | 560                                      | 33,279                                 | 47,775  | 33,590               | 87,812               | 53,752                                | (2)            |
|   | 1919                | 624                                      | 31,272                                 | 39,073  | 32,026               | 75,211               | 43,185                                | 53,805         |
| Car and general construction and repairs, steam-railroad repair shops.    | 1925                | 1,842                                    | 425,234                                | 619,834 | 533,908              | 1,248,867            | 714,959                               | 871,769        |
|   | 1923                | 1,801                                    | 488,505                                | 723,742 | 599,377              | 1,433,680            | 834,303                               | 735,635        |
|   | 1921                | 1,766                                    | 385,006                                | 624,181 | 473,011              | 1,180,030            | 707,019                               | (2)            |
|   | 1919                | 1,744                                    | 484,437                                | 687,618 | 515,803              | 1,279,235            | 763,432                               | 591,070        |

<sup>1</sup> Revised.

<sup>2</sup> Not called for on schedule.

## RAILROAD REPAIR SHOPS

[A preliminary report for these industries was issued under date of January 25, 1927]

**Description of the industries.**—Repair shops maintained by steam railroads for the purpose of making repairs on rolling stock and bridges are classified under the industry designation "Car and general construction and repairs, steam-railroad repair shops"; and repair shops maintained by electric-railroad companies are classified under "Car and general construction and repairs, electric-railroad repair shops." These industries do not include the operations of roundhouses which make incidental repairs but perform no machine-shop work. A few locomotives and cars are built in railroad repair shops, but the bulk of their work consists in repairing and rebuilding.

**Value of products.**—The values of products shown for these industries represent, in general, the cost of materials plus the amounts of salaries and wages paid to shop employees. In some cases, however, the reports indicate that rent payments, taxes, and small amounts of miscellaneous expenses were included in calculating the values of products.

**TABLE 1.—COMBINED SUMMARY FOR STEAM-RAILROAD AND ELECTRIC-RAILROAD REPAIR SHOPS, FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages         | Paid for contract work <sup>1</sup> | Cost of materials <sup>2</sup> | Value of products | Value added by manufacture <sup>3</sup> | Horse-power |
|--------------------------------------|--------------------------|-------------------------------|---------------|-------------------------------------|--------------------------------|-------------------|---|-------------|
| 1925-----                            | 2,363                    | 457,755                       | \$668,191,768 | \$2,244,866                         | \$563,645,944                  | \$1,332,679,079   | \$769,033,135                           | 942,248     |
| 1923-----                            | 2,348                    | 523,430                       | 772,968,122   | 14,813,084                          | 631,358,483                    | 1,520,092,751     | 888,734,268                             | 798,005     |
| 1921-----                            | 2,326                    | 418,285                       | 671,955,829   | 1,690,668                           | 506,571,099                    | 1,267,342,559     | 760,771,460                             | (4)         |
| 1919-----                            | 2,368                    | 515,709                       | 726,690,466   | 1,507,527                           | 547,828,694                    | 1,354,446,094     | 806,617,400                             | \$ 644,875  |
| 1914-----                            | 2,011                    | 365,902                       | 253,149,943   | 225,971                             | 261,438,181                    | 552,617,790       | 291,179,609                             | \$ 478,893  |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |               |                                     |                                |                   |   |             |
| 1923-1925----                        | 0.6                      | -12.5                         | -13.6         | -84.8                               | -10.7                          | -12.3             | -13.5                                   | 18.1        |
| 1921-1923----                        | .9                       | 25.1                          | 15.0          | 792.0                               | 24.6                           | 19.9              | 16.8                                    | -----       |
| 1921-1925----                        | 1.6                      | 9.4                           | -6            | 35.2                                | 11.3                           | 5.2               | 1.1                                     | -----       |
| 1914-1925----                        | 17.5                     | 25.1                          | 164.0         | 893.4                               | 115.6                          | 141.2             | 164.1                                   | 96.8        |

<sup>1</sup> Not including contract work to the value of \$2,838,125 for 1925 and \$6,354,422 for 1923 performed by contractors in steam-railroad repair shops.

<sup>2</sup> Including also cost of fuel, electric power, and shop supplies.

<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>4</sup> Not called for on schedule.

<sup>5</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Tables 5 and 9, pp. 1153 and 1158.)

TABLE 2.—STEAM-RAILROAD REPAIR SHOPS—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages         | Paid for contract work <sup>1</sup> | Cost of materials <sup>2</sup> | Value of products | Value added by manufacture <sup>3</sup> | Horse-power          |
|--------------------------------------|--------------------------|-------------------------------|---------------|-------------------------------------|--------------------------------|-------------------|---|----------------------|
| 1925-----                            | 1,842                    | 425,234                       | \$619,834,382 | \$2,122,983                         | \$533,907,796                  | \$1,248,866,859   | \$714,959,063                           | 871,769              |
| 1923-----                            | 1,801                    | 488,505                       | 723,742,539   | 14,702,135                          | 599,376,833                    | 1,433,680,106     | 834,303,273                             | 735,635              |
| 1921-----                            | 1,766                    | 385,006                       | 624,180,594   | 1,554,806                           | 473,010,966                    | 1,180,030,133     | 707,019,167                             | ( <sup>4</sup> )     |
| 1919-----                            | 1,744                    | 484,437                       | 687,617,312   | 1,380,192                           | 515,803,210                    | 1,279,235,393     | 763,432,183                             | <sup>5</sup> 591,070 |
| 1914-----                            | 1,362                    | 339,518                       | 234,505,098   | 201,375                             | 243,828,607                    | 514,041,225       | 270,212,618                             | <sup>6</sup> 433,904 |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |               |                                     |                                |                   |   |                      |
| 1923-1925----                        | 2.3                      | -13.0                         | -14.4         | -85.6                               | -10.9                          | -12.9             | -14.3                                   | 18.5                 |
| 1921-1923----                        | 2.0                      | 26.9                          | 16.0          | 845.6                               | 26.7                           | 21.5              | 18.0                                    | -----                |
| 1921-1925----                        | 4.3                      | 10.4                          | -7            | 36.5                                | 12.9                           | 5.8               | 1.1                                     | -----                |
| 1914-1925----                        | 35.2                     | 25.2                          | 164.3         | 954.2                               | 119.0                          | 143.0             | 164.6                                   | 100.9                |

<sup>1</sup> Not including contract work to the value of \$2,838,125 for 1925 and \$6,354,422 for 1923 performed by contractors in steam-railroad repair shops.<sup>2</sup> Including also cost of fuel, electric power, and shop supplies.<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)<sup>4</sup> Not called for on schedule.<sup>5</sup> These figures differ slightly from the corresponding ones published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1153.)

TABLE 3.—ELECTRIC-RAILROAD REPAIR SHOPS—SUMMARY FOR THE UNITED STATES: 1914 TO 1925

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power         |
|--------------------------------------|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|---------------------|
| 1925-----                            | 521                      | 32,521                        | \$48,357,386 | \$121,883              | \$29,738,148                   | \$83,812,220      | \$54,074,072                            | 70,479              |
| 1923-----                            | 547                      | 34,925                        | 49,225,583   | 110,949                | 31,981,650                     | 86,412,645        | 54,430,995                              | 62,370              |
| 1921-----                            | 560                      | 33,279                        | 47,775,255   | 105,862                | 33,560,133                     | 87,312,426        | 53,752,293                              | ( <sup>3</sup> )    |
| 1919-----                            | 624                      | 31,272                        | 39,073,154   | 118,335                | 32,025,484                     | 75,210,701        | 43,185,217                              | <sup>4</sup> 53,805 |
| 1914-----                            | 649                      | 26,384                        | 18,644,845   | 24,506                 | 17,609,574                     | 38,576,565        | 20,966,991                              | 44,989              |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                        |                                |                   |   |                     |
| 1923-1925----                        | -4.8                     | -6.9                          | -1.8         | 9.9                    | -7.0                           | -3.0              | -0.7                                    | 13.0                |
| 1921-1923----                        | -2.3                     | 4.9                           | 3.0          | 4.8                    | -4.7                           | -1.0              | 1.3                                     | -----               |
| 1921-1925----                        | -7.0                     | -2.3                          | 1.2          | 15.1                   | -11.4                          | -4.0              | .6                                      | -----               |
| 1914-1925----                        | -19.7                    | 23.3                          | 159.4        | 395.5                  | 68.9                           | 117.3             | 157.9                                   | 56.7                |

<sup>1</sup> Including also cost of fuel, electric power, and shop supplies.<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)<sup>3</sup> Not called for on schedule.<sup>4</sup> This figure differs slightly from the corresponding one published in the report for 1919 because of the exclusion here and the inclusion in the previous report of data for purchased power other than electric. (See footnote 1, Table 9, p. 1158.)



TABLE 4.—STEAM-RAILROAD REPAIR SHOPS—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 7, p. 1154]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |         |         |         |         |
|-------------------------|-------------------------------------|--|----------|---------|---------|---------|---------|
|                         |                                     | January  | February | March   | April   | May     | June    |
| United States:          |                                     |  |          |         |         |         |         |
| 1925 <sup>1</sup> ..... | 425,234                             | 438,141  | 438,308  | 434,680 | 427,066 | 419,800 | 420,597 |
| 1923 <sup>1</sup> ..... | 488,505                             | 483,121  | 485,104  | 491,368 | 486,487 | 492,713 | 500,604 |
| 1921 <sup>1</sup> ..... | 385,006                             | 450,885  | 411,069  | 371,714 | 345,942 | 347,592 | 340,206 |
| 1919 <sup>1</sup> ..... | 484,437                             | 487,141  | 484,047  | 472,266 | 467,674 | 466,995 | 464,919 |
| Alabama.....            | 8,514                               | 8,821  | 8,697    | 8,597   | 8,589   | 8,430   | 8,353   |
| Arizona.....            | 1,545                               | 1,543  | 1,542    | 1,595   | 1,599   | 1,600   | 1,647   |
| Arkansas.....           | 4,025                               | 3,863  | 3,955    | 4,062   | 4,027   | 3,981   | 3,853   |
| California.....         | 13,562                              | 13,897   | 14,009   | 14,134  | 13,960  | 14,063  | 13,990  |
| Colorado.....           | 4,827                               | 5,150  | 5,144    | 4,832   | 4,669   | 4,653   | 4,547   |
| Florida.....            | 4,151                               | 4,122  | 4,100    | 4,018   | 4,016   | 4,097   | 4,063   |
| Georgia.....            | 8,791                               | 8,933  | 8,837    | 8,736   | 8,719   | 8,654   | 8,726   |
| Idaho.....              | 1,530                               | 1,545  | 1,539    | 1,509   | 1,370   | 1,384   | 1,384   |
| Illinois.....           | 35,361                              | 37,091   | 36,053   | 35,160  | 34,682  | 32,720  | 33,552  |
| Indiana.....            | 19,919                              | 20,608   | 20,632   | 20,517  | 20,178  | 20,022  | 20,124  |
| Iowa.....               | 12,516                              | 12,965   | 13,143   | 12,726  | 12,730  | 11,733  | 12,050  |
| Kansas.....             | 9,384                               | 9,922  | 9,959    | 9,830   | 9,513   | 9,469   | 9,394   |
| Kentucky.....           | 13,918                              | 14,048   | 14,022   | 13,985  | 13,699  | 13,647  | 13,711  |
| Louisiana.....          | 4,828                               | 4,933  | 4,950    | 4,853   | 4,820   | 4,842   | 4,767   |
| Maine.....              | 1,511                               | 1,670  | 1,697    | 1,691   | 1,619   | 1,568   | 1,400   |
| Maryland.....           | 7,928                               | 7,997  | 8,167    | 8,241   | 8,162   | 7,828   | 7,772   |
| Massachusetts.....      | 5,785                               | 6,185  | 6,078    | 5,959   | 5,910   | 5,711   | 5,743   |
| Michigan.....           | 7,400                               | 7,337  | 7,504    | 7,444   | 7,375   | 7,219   | 7,265   |
| Minnesota.....          | 13,410                              | 13,225   | 13,289   | 13,246  | 13,299  | 13,176  | 13,279  |
| Mississippi.....        | 2,427                               | 2,323  | 2,371    | 2,307   | 2,324   | 2,291   | 2,398   |
| Missouri.....           | 12,868                              | 13,367   | 13,233   | 13,264  | 13,089  | 12,805  | 12,829  |
| Montana.....            | 3,910                               | 3,849  | 3,885    | 3,901   | 3,896   | 3,868   | 3,941   |
| Nebraska.....           | 5,461                               | 6,081  | 5,922    | 5,750   | 5,622   | 5,282   | 5,340   |
| Nevada.....             | 1,286                               | 1,272  | 1,270    | 1,268   | 1,274   | 1,278   | 1,287   |
| New Jersey.....         | 9,312                               | 9,727  | 9,819    | 9,742   | 9,436   | 9,249   | 9,237   |
| New Mexico.....         | 1,900                               | 2,257  | 2,246    | 2,061   | 2,048   | 1,988   | 1,971   |
| New York.....           | 25,459                              | 26,281   | 26,445   | 26,217  | 25,463  | 25,211  | 25,148  |
| North Carolina.....     | 4,876                               | 4,865  | 4,924    | 4,935   | 4,925   | 4,846   | 4,807   |
| North Dakota.....       | 1,377                               | 1,418  | 1,379    | 1,386   | 1,377   | 1,334   | 1,321   |
| Ohio.....               | 30,423                              | 32,095   | 31,972   | 31,471  | 29,743  | 29,355  | 29,893  |
| Oklahoma.....           | 2,174                               | 2,233  | 2,219    | 2,234   | 2,205   | 2,176   | 2,145   |
| Oregon.....             | 2,612                               | 2,564  | 2,401    | 2,386   | 2,423   | 2,430   | 2,484   |
| Pennsylvania.....       | 61,221                              | 64,131   | 64,445   | 64,476  | 62,632  | 61,896  | 61,120  |
| South Carolina.....     | 2,130                               | 2,030  | 2,088    | 2,104   | 2,099   | 2,049   | 2,063   |
| South Dakota.....       | 960                                 | 967  | 956      | 963     | 952     | 912     | 901     |
| Tennessee.....          | 10,085                              | 10,120   | 10,103   | 9,905   | 9,946   | 9,893   | 9,910   |
| Texas.....              | 14,962                              | 15,066   | 15,216   | 15,418  | 15,512  | 15,520  | 15,173  |
| Utah.....               | 2,389                               | 2,453  | 2,481    | 2,427   | 2,314   | 2,301   | 2,302   |
| Vermont.....            | 915                                 | 1,010  | 951      | 975     | 967     | 961     | 958     |
| Virginia.....           | 13,291                              | 13,648   | 13,582   | 13,462  | 13,412  | 13,405  | 13,445  |
| Washington.....         | 5,843                               | 5,944  | 5,948    | 5,930   | 5,946   | 5,843   | 5,862   |
| West Virginia.....      | 11,941                              | 12,328   | 12,416   | 12,415  | 12,011  | 11,786  | 11,662  |
| Wisconsin.....          | 10,594                              | 9,922  | 10,393   | 10,326  | 10,620  | 10,510  | 11,088  |
| Wyoming.....            | 2,213                               | 2,282  | 2,340    | 2,219   | 2,055   | 2,047   | 2,031   |

See footnote at end of table.

TABLE 4.—STEAM-RAILROAD REPAIR SHOPS—WAGE EARNERS, BY MONTHS,  
FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—  
Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |                |            |         |           |                |
|-------------------------|--|----------------|------------|---------|-----------|----------------|
|                         | July   | August         | Septem-ber | October | Novem-ber | Decem-ber      |
| United States:          |  |                |            |         |           |                |
| 1925 <sup>1</sup> ..... | 420,062  | <i>416,961</i> | 417,119    | 421,134 | 423,527   | 425,441        |
| 1923 <sup>1</sup> ..... | 499,358  | 498,697        | 494,011    | 489,286 | 483,274   | <i>458,039</i> |
| 1921 <sup>1</sup> ..... | 358,067  | 376,233        | 390,998    | 408,422 | 416,200   | 402,712        |
| 1919 <sup>1</sup> ..... | 475,570  | 480,705        | 493,057    | 502,119 | 507,617   | 511,184        |
| Alabama.....            | 8,176  | 8,139          | 8,366      | 8,580   | 8,672     | 8,750          |
| Arizona.....            | 1,526  | 1,456          | 1,546      | 1,470   | 1,497     | 1,521          |
| Arkansas.....           | 3,994  | 4,058          | 4,073      | 4,039   | 4,118     | 4,176          |
| California.....         | 13,786   | 12,899         | 12,861     | 13,020  | 13,013    | 13,216         |
| Colorado.....           | 4,618  | 4,686          | 4,874      | 4,756   | 4,956     | 5,034          |
| Florida.....            | 4,059  | 3,903          | 4,251      | 4,347   | 4,303     | 4,530          |
| Georgia.....            | 8,584  | 8,528          | 8,729      | 8,978   | 9,009     | 9,057          |
| Idaho.....              | 1,481  | 1,593          | 1,595      | 1,625   | 1,691     | 1,650          |
| Illinois.....           | 34,674   | 34,749         | 35,631     | 36,475  | 36,761    | 36,780         |
| Indiana.....            | 19,541   | 19,012         | 19,349     | 19,630  | 19,690    | 19,721         |
| Iowa.....               | 12,463   | 12,446         | 12,421     | 12,507  | 12,607    | 12,402         |
| Kansas.....             | 9,380  | 9,229          | 9,045      | 8,886   | 8,979     | 9,000          |
| Kentucky.....           | 13,713   | 13,758         | 13,925     | 14,084  | 14,153    | 14,269         |
| Louisiana.....          | 4,872  | 4,731          | 4,819      | 4,821   | 4,760     | 4,774          |
| Maine.....              | 1,374  | 1,396          | 1,410      | 1,437   | 1,433     | 1,434          |
| Maryland.....           | 7,747  | 7,705          | 7,766      | 7,829   | 7,889     | 8,033          |
| Massachusetts.....      | 5,726  | 5,595          | 5,602      | 5,620   | 5,597     | 5,698          |
| Michigan.....           | 7,320  | 7,215          | 7,435      | 7,606   | 7,500     | 7,577          |
| Minnesota.....          | 13,595   | 13,663         | 13,671     | 13,633  | 13,449    | 13,395         |
| Mississippi.....        | 2,430  | 2,497          | 2,479      | 2,569   | 2,576     | 2,561          |
| Missouri.....           | 12,923   | 12,906         | 12,490     | 12,546  | 12,509    | 12,452         |
| Montana.....            | 3,941  | 3,921          | 3,893      | 4,020   | 3,924     | 3,880          |
| Nebraska.....           | 5,419  | 5,333          | 5,250      | 5,134   | 5,189     | 5,208          |
| Nevada.....             | 1,287  | 1,269          | 1,265      | 1,331   | 1,320     | 1,311          |
| New Jersey.....         | 9,188  | 9,095          | 8,986      | 8,926   | 9,182     | 9,153          |
| New Mexico.....         | 1,848  | 1,826          | 1,713      | 1,701   | 1,567     | 1,576          |
| New York.....           | 25,193   | 25,269         | 24,423     | 25,129  | 25,354    | 25,374         |
| North Carolina.....     | 4,812  | 4,766          | 4,830      | 4,908   | 4,944     | 4,955          |
| North Dakota.....       | 1,336  | 1,417          | 1,425      | 1,423   | 1,387     | 1,321          |
| Ohio.....               | 29,744   | 29,623         | 29,686     | 30,007  | 30,597    | 30,893         |
| Oklahoma.....           | 2,160  | 2,177          | 2,138      | 2,136   | 2,145     | 2,121          |
| Oregon.....             | 2,671  | 2,694          | 2,737      | 2,841   | 2,885     | 2,830          |
| Pennsylvania.....       | 59,689   | 59,294         | 58,576     | 58,790  | 59,409    | 60,192         |
| South Carolina.....     | 2,066  | 2,057          | 2,192      | 2,283   | 2,254     | 2,279          |
| South Dakota.....       | 959  | 976            | 988        | 1,018   | 975       | 948            |
| Tennessee.....          | 10,058   | 10,032         | 10,019     | 10,278  | 10,371    | 10,384         |
| Texas.....              | 15,059   | 14,987         | 14,711     | 14,314  | 14,223    | 14,340         |
| Utah.....               | 2,322  | 2,347          | 2,379      | 2,433   | 2,450     | 2,456          |
| Vermont.....            | 929  | 880            | 869        | 845     | 813       | 819            |
| Virginia.....           | 12,999   | 12,827         | 13,079     | 13,099  | 13,222    | 13,307         |
| Washington.....         | 5,965  | 5,922          | 5,677      | 5,720   | 5,687     | 5,674          |
| West Virginia.....      | 11,694   | 11,696         | 11,639     | 11,744  | 11,887    | 12,015         |
| Wisconsin.....          | 11,175   | 10,678         | 10,564     | 10,728  | 10,648    | 10,475         |
| Wyoming.....            | 2,134  | 2,226          | 2,282      | 2,330   | 2,353     | 2,253          |

<sup>1</sup> Month of maximum employment indicated by **bold-faced** figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 95.1; 1923, 91.5; 1921, 75.4; 1919, 91.

TABLE 5.—STEAM-RAILROAD REPAIR SHOPS—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                        | 1923             |                                | 1919             |                                |
|---|---------|------------------------|------------------|--------------------------------|------------------|--------------------------------|
|   | Num-ber | Horse-power            | Num-ber          | Horse-power                    | Num-ber          | Horse-power                    |
| Prime movers, total.....                                    | 32, 631 | 871, 769               | 22, 976          | 735, 635                       | 14, 295          | <sup>1</sup> 591, 070          |
| Steam engines.....  | 1, 890  | 286, 215               | 2, 328           | 365, 839                       | 2, 358           | 325, 738                       |
| Steam turbines.....   | 164     | 66, 264                |                  |                                |                  |                                |
| Internal-combustion engines.....                            | 142     | 4, 643                 | 149              | 6, 255                         | 132              | 49, 868                        |
| Water wheels and turbines.....                              | 3       | 32                     | 2                | 78                             | 158              | 6, 993                         |
| Electric motors driven by purchased current.....            | 30, 432 | 514, 615               | 20, 497          | 363, 463                       | 11, 636          | 207, 630                       |
| Electric motors, total.....                                 | 47, 180 | 775, 553               | 37, 616          | 634, 760                       | 30, 185          | 500, 141                       |
| Driven by purchased current.....                            | 30, 432 | 514, 615               | 20, 497          | 363, 463                       | 11, 636          | 207, 630                       |
| Driven by current generated in establishment reporting..... | 16, 748 | 260, 938               | 17, 119          | 271, 297                       | 18, 549          | 292, 511                       |
| Electric generators.....                                    | 882     | Kilo-watts<br>142, 451 | ( <sup>2</sup> ) | Kilo-watts<br>( <sup>2</sup> ) | ( <sup>2</sup> ) | Kilo-watts<br>( <sup>2</sup> ) |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 6.—STEAM-RAILROAD REPAIR SHOPS—DETAILED STATISTICS OF WORK PERFORMED, FOR THE UNITED STATES: 1919 TO 1925

|  | 1925               | 1923               | 1921               | 1919               |
|--|--------------------|--------------------|--------------------|--------------------|
| Total value of work or products.....                         | \$1, 248, 866, 859 | \$1, 433, 680, 106 | \$1, 180, 030, 133 | \$1, 279, 235, 393 |
| Motive power and machinery departments, value.....           | \$622, 344, 078    | \$720, 294, 903    | \$580, 825, 114    | \$622, 480, 393    |
| Locomotives built—   |                    |                    |                    |                    |
| Number.....  | 119                | 165                | 67                 | 106                |
| Value.....   | \$4, 061, 453      | \$6, 321, 692      | \$3, 079, 237      | \$5, 825, 096      |
| Repairs to locomotives, etc., value.....                     | \$469, 035, 512    | \$555, 774, 595    | \$441, 624, 821    | \$463, 952, 871    |
| Work for other corporations, value.....                      | \$10, 257, 608     | \$13, 810, 112     | \$13, 382, 710     | \$16, 889, 147     |
| All other work or products, value.....                       | \$138, 989, 505    | \$144, 388, 504    | \$122, 738, 346    | \$135, 813, 279    |
| Car departments, value.....                                  | \$540, 753, 100    | \$628, 462, 929    | \$542, 629, 405    | \$573, 709, 875    |
| Cars built, value.....                                       | \$6, 908, 335      | \$15, 703, 831     | \$13, 588, 167     | \$5, 133, 115      |
| Passenger—   |                    |                    |                    |                    |
| Number.....  | 10                 | 5                  | 15                 | 20                 |
| Value.....   | \$207, 279         | \$77, 846          | \$527, 739         | \$191, 691         |
| Freight—   |                    |                    |                    |                    |
| Number.....  | 3, 351             | 10, 179            | 4, 697             | 2, 394             |
| Value.....   | \$5, 912, 283      | \$14, 509, 823     | \$12, 124, 614     | \$4, 590, 482      |
| Other—   |                    |                    |                    |                    |
| Number.....  | 282                | 464                | 304                | 271                |
| Value.....   | \$788, 773         | \$1, 116, 162      | \$935, 814         | \$350, 942         |
| Repairs to cars, all kinds, value.....                       | \$451, 813, 926    | \$604, 166, 172    | \$429, 882, 898    | \$479, 229, 076    |
| Work for other corporations, value.....                      | \$19, 104, 030     | \$24, 354, 562     | \$21, 648, 257     | \$31, 101, 248     |
| All other work or products, value.....                       | \$62, 926, 809     | \$84, 238, 364     | \$77, 510, 083     | \$58, 246, 436     |
| Bridge and building departments (shop-work only), value..... | \$5, 316, 408      | \$6, 959, 903      | \$4, 471, 614      | \$8, 555, 303      |
| Repairs and renewals, value.....                             | \$4, 774, 126      | \$5, 782, 779      | \$3, 363, 618      | \$7, 288, 373      |
| Work for other corporations, value.....                      | \$60, 206          | \$77, 555          | \$359, 295         | \$22, 804          |
| All other work or products, value.....                       | \$482, 076         | \$1, 099, 569      | \$748, 701         | \$1, 224, 126      |
| All other work or products, not classified, value.....       | \$80, 453, 273     | \$77, 962, 371     | \$52, 104, 000     | \$74, 509, 822     |

TABLE 7.—STEAM-RAILROAD REPAIR SHOPS—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 1,842                    | 462,038                         | 36,804                          | 425,234                       | 871,769     |
| Alabama.....                        | 20                       | 9,099                           | 585                             | 8,514                         | 13,486      |
| Arizona.....                        | 13                       | 1,649                           | 104                             | 1,545                         | 1,860       |
| Arkansas.....                       | 10                       | 4,379                           | 354                             | 4,025                         | 5,097       |
| California.....                     | 64                       | 14,721                          | 1,159                           | 13,562                        | 31,427      |
| Colorado.....                       | 28                       | 5,183                           | 356                             | 4,827                         | 13,311      |
| Florida.....                        | 14                       | 4,454                           | 303                             | 4,151                         | 6,282       |
| Georgia.....                        | 31                       | 9,381                           | 590                             | 8,791                         | 22,535      |
| Idaho.....                          | 10                       | 1,649                           | 119                             | 1,530                         | 9,217       |
| Illinois.....                       | 141                      | 38,505                          | 3,144                           | 35,361                        | 68,398      |
| Indiana.....                        | 83                       | 21,843                          | 1,924                           | 19,919                        | 35,158      |
| Iowa.....                           | 61                       | 13,586                          | 1,070                           | 12,516                        | 16,764      |
| Kansas.....                         | 35                       | 10,161                          | 777                             | 9,384                         | 22,036      |
| Kentucky.....                       | 29                       | 14,775                          | 857                             | 13,918                        | 10,903      |
| Louisiana.....                      | 26                       | 5,169                           | 341                             | 4,828                         | 6,597       |
| Maine.....                          | 12                       | 1,666                           | 155                             | 1,511                         | 4,288       |
| Maryland.....                       | 21                       | 8,440                           | 512                             | 7,928                         | 21,563      |
| Massachusetts.....                  | 19                       | 6,419                           | 634                             | 5,785                         | 15,210      |
| Michigan.....                       | 50                       | 8,004                           | 604                             | 7,400                         | 25,958      |
| Minnesota.....                      | 68                       | 14,395                          | 985                             | 13,410                        | 27,184      |
| Mississippi.....                    | 17                       | 2,651                           | 224                             | 2,427                         | 24,098      |
| Missouri.....                       | 64                       | 13,890                          | 1,022                           | 12,868                        | 5,932       |
| Montana.....                        | 31                       | 4,211                           | 301                             | 3,910                         | 9,377       |
| Nebraska.....                       | 25                       | 5,786                           | 325                             | 5,461                         | 18,903      |
| Nevada.....                         | 18                       | 1,390                           | 104                             | 1,286                         | 3,889       |
| New Jersey.....                     | 34                       | 10,357                          | 1,045                           | 9,312                         | 19,370      |
| New Mexico.....                     | 12                       | 2,101                           | 201                             | 1,900                         | 4,868       |
| New York.....                       | 138                      | 28,365                          | 2,906                           | 25,459                        | 56,147      |
| North Carolina.....                 | 15                       | 5,188                           | 312                             | 4,876                         | 6,715       |
| North Dakota.....                   | 20                       | 1,508                           | 131                             | 1,377                         | 1,612       |
| Ohio.....                           | 134                      | 33,669                          | 3,246                           | 30,423                        | 62,156      |
| Oklahoma.....                       | 25                       | 2,343                           | 169                             | 2,174                         | 4,496       |
| Oregon.....                         | 22                       | 2,762                           | 150                             | 2,612                         | 4,554       |
| Pennsylvania.....                   | 170                      | 67,148                          | 5,927                           | 61,221                        | 142,513     |
| South Carolina.....                 | 9                        | 2,274                           | 144                             | 2,130                         | 3,587       |
| South Dakota.....                   | 17                       | 1,032                           | 72                              | 960                           | 746         |
| Tennessee.....                      | 20                       | 10,709                          | 624                             | 10,085                        | 19,201      |
| Texas.....                          | 109                      | 16,159                          | 1,197                           | 14,962                        | 35,039      |
| Utah.....                           | 10                       | 2,568                           | 179                             | 2,389                         | 5,596       |
| Vermont.....                        | 5                        | 1,000                           | 85                              | 915                           | 2,835       |
| Virginia.....                       | 37                       | 14,220                          | 929                             | 13,291                        | 23,843      |
| Washington.....                     | 39                       | 6,248                           | 405                             | 5,843                         | 11,350      |
| West Virginia.....                  | 45                       | 12,710                          | 769                             | 11,941                        | 24,619      |
| Wisconsin.....                      | 53                       | 11,420                          | 826                             | 10,594                        | 8,462       |
| Wyoming.....                        | 13                       | 2,374                           | 161                             | 2,213                         | 5,842       |
| All other States <sup>1</sup> ..... | 25                       | 6,477                           | 777                             | 5,700                         | 8,736       |

See footnotes at end of table.

TABLE 7.—STEAM-RAILROAD REPAIR SHOPS—GENERAL STATISTICS, BY STATES:  
1925—Continued

[See note at head of this table]

| STATE                               | Salaries     | Wages         | Paid for contract work <sup>2</sup> | Cost of materials | Value of products | Value added by manufacture <sup>3</sup> |
|-------------------------------------|--------------|---------------|-------------------------------------|-------------------|-------------------|---|
| United States.....                  | \$88,472,649 | \$619,834,382 | \$2,122,983                         | \$533,907,796     | \$1,248,866,859   | \$714,959,063                           |
| Alabama.....                        | 1,861,885    | 11,076,168    | -----                               | 8,558,621         | 21,022,180        | 12,463,559                              |
| Arizona.....                        | 259,113      | 1,918,803     | -----                               | 1,540,543         | 3,719,802         | 2,179,259                               |
| Arkansas.....                       | 752,014      | 4,425,379     | -----                               | 5,120,819         | 10,298,212        | 5,177,393                               |
| California.....                     | 2,671,161    | 19,793,188    | 13,286                              | 14,556,197        | 37,131,450        | 22,575,253                              |
| Colorado.....                       | 790,166      | 7,189,444     | 3,376                               | 5,821,840         | 13,904,826        | 7,982,986                               |
| Florida.....                        | 746,701      | 6,302,071     | -----                               | 5,341,685         | 12,895,731        | 7,554,046                               |
| Georgia.....                        | 1,395,560    | 10,485,146    | -----                               | 10,451,620        | 22,357,215        | 11,905,595                              |
| Idaho.....                          | 285,520      | 2,187,857     | 2,640                               | 2,021,583         | 4,497,600         | 2,476,017                               |
| Illinois.....                       | 7,595,840    | 52,842,574    | 623,181                             | 38,515,059        | 99,651,804        | 61,136,745                              |
| Indiana.....                        | 4,691,726    | 28,853,029    | 123,251                             | 23,393,178        | 57,073,134        | 33,679,956                              |
| Iowa.....                           | 2,231,785    | 18,016,982    | 6,074                               | 11,275,152        | 31,529,993        | 20,254,841                              |
| Kansas.....                         | 1,929,005    | 13,471,751    | 192,362                             | 12,364,018        | 27,969,284        | 15,605,266                              |
| Kentucky.....                       | 1,977,738    | 10,502,152    | -----                               | 13,177,079        | 34,656,969        | 21,479,890                              |
| Louisiana.....                      | 760,604      | 6,323,128     | 7,700                               | 3,321,998         | 10,808,233        | 7,486,235                               |
| Maine.....                          | 353,423      | 1,858,901     | -----                               | 2,090,504         | 4,302,828         | 2,212,324                               |
| Maryland.....                       | 1,320,863    | 11,264,580    | -----                               | 13,771,288        | 26,407,348        | 12,636,060                              |
| Massachusetts.....                  | 1,415,743    | 8,917,922     | -----                               | 11,349,284        | 21,682,949        | 10,333,665                              |
| Michigan.....                       | 1,403,249    | 12,683,757    | 1,327                               | 11,532,379        | 25,677,049        | 14,144,670                              |
| Minnesota.....                      | 2,379,918    | 19,884,641    | -----                               | 13,565,093        | 35,829,552        | 22,264,459                              |
| Mississippi.....                    | 554,194      | 3,432,796     | -----                               | 2,263,004         | 6,264,710         | 4,001,706                               |
| Missouri.....                       | 2,274,823    | 18,063,482    | 15,834                              | 17,491,242        | 37,892,002        | 20,400,760                              |
| Montana.....                        | 775,447      | 6,008,583     | -----                               | 3,402,094         | 10,156,124        | 6,784,030                               |
| Nebraska.....                       | 830,942      | 7,738,013     | 23,221                              | 6,816,475         | 15,408,651        | 8,592,176                               |
| Nevada.....                         | 253,994      | 2,072,741     | -----                               | 1,230,103         | 3,565,005         | 2,334,902                               |
| New Jersey.....                     | 2,403,468    | 14,475,887    | -----                               | 9,084,977         | 26,054,332        | 16,969,355                              |
| New Mexico.....                     | 517,545      | 2,665,914     | -----                               | 2,656,128         | 5,842,735         | 3,186,607                               |
| New York.....                       | 6,747,997    | 38,036,043    | 68,765                              | 33,144,673        | 78,015,785        | 44,871,112                              |
| North Carolina.....                 | 827,267      | 6,365,261     | -----                               | 7,800,435         | 14,993,598        | 7,193,163                               |
| North Dakota.....                   | 344,873      | 2,072,756     | -----                               | 981,032           | 3,400,040         | 2,419,008                               |
| Ohio.....                           | 7,436,251    | 47,467,705    | -----                               | 34,682,836        | 89,861,317        | 55,178,481                              |
| Oklahoma.....                       | 428,337      | 3,118,542     | -----                               | 2,155,815         | 5,702,694         | 3,546,879                               |
| Oregon.....                         | 388,136      | 3,695,896     | -----                               | 2,173,223         | 6,264,468         | 4,091,245                               |
| Pennsylvania.....                   | 15,462,831   | 93,625,019    | 484,259                             | 101,664,895       | 213,806,965       | 112,142,070                             |
| South Carolina.....                 | 425,747      | 2,794,248     | -----                               | 3,110,733         | 6,335,338         | 3,324,605                               |
| South Dakota.....                   | 186,097      | 1,446,690     | 11                                  | 758,850           | 2,391,648         | 1,632,798                               |
| Tennessee.....                      | 1,534,578    | 13,332,334    | -----                               | 11,844,782        | 26,711,694        | 14,866,912                              |
| Texas.....                          | 2,763,570    | 20,060,657    | 943                                 | 20,472,431        | 43,612,493        | 23,140,062                              |
| Utah.....                           | 428,621      | 3,482,079     | -----                               | 2,268,557         | 6,179,257         | 3,910,700                               |
| Vermont.....                        | 170,029      | 1,241,731     | -----                               | 1,677,543         | 3,089,303         | 1,411,760                               |
| Virginia.....                       | 2,408,990    | 17,596,303    | -----                               | 17,185,994        | 37,191,287        | 20,005,293                              |
| Washington.....                     | 867,695      | 8,361,117     | 83,706                              | 7,269,776         | 16,582,294        | 9,312,518                               |
| West Virginia.....                  | 1,928,064    | 17,045,737    | 332,489                             | 14,032,057        | 33,347,557        | 19,315,500                              |
| Wisconsin.....                      | 1,948,724    | 16,025,406    | 136,005                             | 11,298,767        | 29,408,902        | 18,110,135                              |
| Wyoming.....                        | 394,096      | 3,482,166     | 3,770                               | 3,432,037         | 7,812,069         | 3,880,032                               |
| All other States <sup>1</sup> ..... | 1,758,319    | 9,129,933     | 783                                 | 7,241,397         | 18,130,432        | 10,889,035                              |

<sup>1</sup> Connecticut, 14 establishments; Delaware, 3; District of Columbia, 2; New Hampshire, 3; Rhode Island, 3.<sup>2</sup> Not including contract work to the value of \$2,838,125 performed by contractors in steam-railroad repair shops.<sup>3</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

TABLE 8.—ELECTRIC-RAILROAD REPAIR SHOPS—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported larger numbers of wage earners than some of those for which statistics are shown. See headnote, Table 11, p. 1159]

| STATE                   | Average<br>number<br>employed<br>during<br>year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST<br>REPRESENTATIVE DAY |          |        |        |        |        |
|-------------------------|---|---|----------|--------|--------|--------|--------|
|                         |   | January   | February | March  | April  | May    | June   |
| United States:          |   |   |          |        |        |        |        |
| 1925 <sup>1</sup> ..... | 32,521  | 32,943  | 32,993   | 33,139 | 33,026 | 32,885 | 32,980 |
| 1924 <sup>1</sup> ..... | 34,925  | 34,403  | 34,582   | 34,958 | 35,151 | 34,902 | 35,267 |
| 1923 <sup>1</sup> ..... | 33,279  | 33,985  | 33,847   | 33,747 | 33,576 | 33,387 | 33,224 |
| 1921 <sup>1</sup> ..... | 31,272  | 31,499  | 31,702   | 31,686 | 31,332 | 30,937 | 30,920 |
| Arizona.....            | 17  | 18  | 16       | 18     | 17     | 17     | 17     |
| Arkansas.....           | 86  | 80  | 84       | 98     | 95     | 92     | 90     |
| California.....         | 2,890   | 2,920   | 2,922    | 2,944  | 2,920  | 2,952  | 3,218  |
| Colorado.....           | 264   | 265   | 270      | 268    | 274    | 275    | 265    |
| Connecticut.....        | 356   | 381   | 343      | 374    | 349    | 361    | 353    |
| Florida.....            | 90  | 89  | 85       | 87     | 79     | 76     | 92     |
| Georgia.....            | 208   | 198   | 197      | 203    | 203    | 206    | 209    |
| Illinois.....           | 3,478   | 3,557   | 3,543    | 3,562  | 3,514  | 3,458  | 3,449  |
| Indiana.....            | 1,112   | 1,144   | 1,133    | 1,132  | 1,116  | 1,093  | 1,100  |
| Iowa.....               | 243   | 235   | 239      | 238    | 234    | 239    | 245    |
| Kansas.....             | 116   | 129   | 124      | 128    | 121    | 112    | 114    |
| Kentucky.....           | 216   | 216   | 219      | 214    | 215    | 216    | 212    |
| Louisiana.....          | 222   | 254   | 223      | 226    | 226    | 221    | 219    |
| Maine.....              | 146   | 147   | 150      | 147    | 146    | 143    | 144    |
| Maryland.....           | 889   | 852   | 875      | 898    | 940    | 945    | 942    |
| Massachusetts.....      | 1,381   | 1,397   | 1,389    | 1,382  | 1,399  | 1,398  | 1,400  |
| Michigan.....           | 799   | 899   | 898      | 852    | 806    | 771    | 765    |
| Minnesota.....          | 500   | 475   | 480      | 485    | 457    | 435    | 467    |
| Missouri.....           | 1,433   | 1,437   | 1,436    | 1,424  | 1,428  | 1,437  | 1,433  |
| Montana.....            | 44  | 42  | 42       | 44     | 44     | 44     | 44     |
| New Hampshire.....      | 41  | 43  | 43       | 42     | 41     | 42     | 42     |
| New Jersey.....         | 1,059   | 1,149   | 1,159    | 1,161  | 1,152  | 1,087  | 1,057  |
| New York.....           | 7,099   | 7,028   | 7,080    | 7,180  | 7,251  | 7,318  | 7,287  |
| North Carolina.....     | 56  | 55  | 55       | 55     | 55     | 55     | 55     |
| Ohio.....               | 2,196   | 2,158   | 2,195    | 2,199  | 2,205  | 2,176  | 2,205  |
| Oklahoma.....           | 141   | 145   | 147      | 146    | 146    | 140    | 138    |
| Pennsylvania.....       | 3,756   | 3,929   | 3,942    | 3,901  | 3,896  | 3,873  | 3,748  |
| Rhode Island.....       | 189   | 194   | 194      | 195    | 193    | 195    | 197    |
| Tennessee.....          | 350   | 344   | 355      | 363    | 355    | 342    | 359    |
| Texas.....              | 613   | 636   | 623      | 621    | 618    | 610    | 608    |
| Utah.....               | 127   | 136   | 133      | 132    | 122    | 122    | 119    |
| Virginia.....           | 246   | 251   | 243      | 245    | 247    | 247    | 248    |
| Washington.....         | 446   | 472   | 464      | 460    | 449    | 439    | 439    |
| West Virginia.....      | 170   | 171   | 175      | 175    | 172    | 171    | 169    |
| Wisconsin.....          | 597   | 587   | 580      | 601    | 606    | 624    | 590    |

See footnote at end of table.

TABLE 8.—ELECTRIC-RAILROAD REPAIR SHOPS—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925—Continued

[See note at head of this table]

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |               |               |         |               |          |
|-------------------------|--|---------------|---------------|---------|---------------|----------|
|                         | July   | August        | September     | October | November      | December |
| United States:          |  |               |               |         |               |          |
| 1925 <sup>1</sup> ..... | 32,502   | 32,058        | <i>31,864</i> | 31,898  | 31,984        | 31,966   |
| 1923 <sup>1</sup> ..... | 35,050   | <i>34,250</i> | 34,842        | 35,116  | 35,492        | 35,083   |
| 1921 <sup>1</sup> ..... | 33,308   | 33,274        | 32,889        | 32,709  | <i>32,571</i> | 32,829   |
| 1919 <sup>1</sup> ..... | 30,896   | 30,796        | 30,960        | 31,568  | 31,774        | 31,894   |
| Arizona.....            | 17   | 16            | 14            | 16      | 19            | 19       |
| Arkansas.....           | 90   | 85            | 80            | 79      | 77            | 79       |
| California.....         | 2,807  | 2,819         | 2,782         | 2,831   | 2,781         | 2,783    |
| Colorado.....           | 263  | 257           | 252           | 257     | 254           | 269      |
| Connecticut.....        | 370  | 364           | 344           | 363     | 329           | 346      |
| Florida.....            | 91   | 99            | 96            | 91      | 97            | 102      |
| Georgia.....            | 210  | 215           | 217           | 224     | 212           | 207      |
| Illinois.....           | 3,431  | 3,413         | 3,449         | 3,468   | 3,462         | 3,426    |
| Indiana.....            | 1,102  | 1,111         | 1,092         | 1,092   | 1,096         | 1,135    |
| Iowa.....               | 245  | 267           | 244           | 239     | 243           | 245      |
| Kansas.....             | 110  | 107           | 109           | 115     | 109           | 113      |
| Kentucky.....           | 217  | 213           | 217           | 215     | 214           | 218      |
| Louisiana.....          | 215  | 217           | 217           | 215     | 215           | 214      |
| Maine.....              | 142  | 144           | 145           | 143     | 148           | 147      |
| Maryland.....           | 914  | 890           | 875           | 867     | 847           | 828      |
| Massachusetts.....      | 1,372  | 1,363         | 1,379         | 1,366   | 1,359         | 1,368    |
| Michigan.....           | 753  | 750           | 763           | 766     | 783           | 776      |
| Minnesota.....          | 484  | 512           | 509           | 545     | 572           | 575      |
| Missouri.....           | 1,437  | 1,434         | 1,428         | 1,423   | 1,433         | 1,441    |
| Montana.....            | 46   | 45            | 45            | 45      | 44            | 44       |
| New Hampshire.....      | 44   | 44            | 39            | 39      | 38            | 37       |
| New Jersey.....         | 1,063  | 1,016         | 1,023         | 974     | 941           | 929      |
| New York.....           | 7,313  | 7,016         | 6,949         | 6,871   | 6,958         | 6,932    |
| North Carolina.....     | 55   | 55            | 55            | 58      | 58            | 58       |
| Ohio.....               | 2,185  | 2,191         | 2,202         | 2,207   | 2,210         | 2,217    |
| Oklahoma.....           | 140  | 140           | 129           | 138     | 140           | 138      |
| Pennsylvania.....       | 3,705  | 3,638         | 3,609         | 3,600   | 3,617         | 3,614    |
| Rhode Island.....       | 194  | 189           | 177           | 183     | 180           | 180      |
| Tennessee.....          | 344  | 344           | 338           | 349     | 356           | 353      |
| Texas.....              | 621  | 606           | 595           | 595     | 602           | 624      |
| Utah.....               | 119  | 117           | 120           | 132     | 139           | 131      |
| Virginia.....           | 245  | 244           | 248           | 246     | 247           | 246      |
| Washington.....         | 442  | 441           | 435           | 438     | 435           | 440      |
| West Virginia.....      | 170  | 170           | 170           | 168     | 165           | 164      |
| Wisconsin.....          | 590  | 584           | 575           | 596     | 647           | 607      |

<sup>1</sup> Month of maximum employment indicated by bold-faced figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 96.2; 1923, 96.5; 1921, 95.8; 1919, 94.8.

TABLE 9.—ELECTRIC-RAILROAD REPAIR SHOPS—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925   |             | 1923             |                             | 1919             |                             |
|---|--------|-------------|------------------|-----------------------------|------------------|-----------------------------|
|   | Number | Horse-power | Number           | Horse-power                 | Number           | Horse-power                 |
| Prime movers, total.....                                    | 6, 076 | 70, 479     | 5, 310           | 62, 370                     | 3, 577           | 1 53, 805                   |
| Steam engines.....  | 8      | 125         | 19               | 2, 063                      | 45               | 5, 875                      |
| Steam turbines.....   |        |             |                  |                             |                  |                             |
| Internal-combustion engines.....                            | 5      | 180         | 5                | 165                         | 11               | 564                         |
| Water wheels and turbines.....                              |        |             | 1                | 10                          |                  |                             |
| Electric motors driven by purchased current.....            | 6, 063 | 70, 174     | 5, 285           | 60, 132                     | 3, 521           | 47, 366                     |
| Electric motors, total.....                                 | 6, 063 | 70, 174     | 5, 285           | 60, 132                     | 3, 711           | 50, 016                     |
| Driven by purchased current.....                            | 6, 063 | 70, 174     | 5, 285           | 60, 132                     | 3, 521           | 47, 366                     |
| Driven by current generated in establishment reporting..... |        |             |                  |                             | 190              | 2, 650                      |
| Electric generators.....                                    |        | Kilo-watts  | ( <sup>2</sup> ) | Kilo-watts ( <sup>2</sup> ) | ( <sup>2</sup> ) | Kilo-watts ( <sup>2</sup> ) |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

<sup>2</sup> Not called for on schedule.

TABLE 10.—ELECTRIC-RAILROAD REPAIR SHOPS—DETAILED STATISTICS OF WORK PERFORMED, FOR THE UNITED STATES: 1919 TO 1925

|   | 1925           | 1923           | 1921             | 1919           |
|---|----------------|----------------|------------------|----------------|
| Total value of work or products.....                        | \$83, 812, 220 | \$86, 412, 645 | \$87, 312, 426   | \$75, 210, 701 |
| Motive power and machinery departments, value.....          | \$6, 210, 757  | \$7, 303, 978  | \$7, 715, 044    | \$7, 926, 303  |
| Electric locomotives built—                                 |                |                |                  |                |
| Number.....   | 14             | 17             | ( <sup>1</sup> ) | 2              |
| Value.....  | \$216, 078     | \$198, 775     | ( <sup>1</sup> ) | \$15, 045      |
| Repairs to motors, etc., value.....                         | \$5, 525, 622  | \$6, 692, 410  | \$7, 226, 905    | \$7, 081, 735  |
| Work for other corporations, value.....                     | \$117, 000     | \$101, 754     | \$78, 472        | \$75, 182      |
| All other work or products, value.....                      | \$352, 057     | \$311, 039     | \$409, 667       | \$754, 341     |
| Car departments, value.....                                 | \$73, 177, 906 | \$75, 070, 768 | \$75, 529, 519   | \$64, 237, 805 |
| Cars built, value.....                                      | \$608, 988     | \$3, 523, 048  | \$1, 248, 267    | \$762, 293     |
| Passenger—  |                |                |                  |                |
| Number.....   | 45             | 299            | 127              | 88             |
| Value.....  | \$574, 664     | \$3, 287, 447  | \$822, 398       | \$635, 770     |
| Freight—  |                |                |                  |                |
| Number.....   | 2              | 47             | 2                | 46             |
| Value.....  | \$9, 633       | \$103, 738     | \$7, 200         | \$95, 638      |
| Other—  |                |                |                  |                |
| Number.....   | 6              | 37             | 48               | 17             |
| Value.....  | \$24, 691      | \$132, 463     | \$418, 669       | \$30, 885      |
| Repairs to cars of all kinds, value.....                    | \$65, 392, 764 | \$65, 420, 854 | \$69, 131, 546   | \$60, 060, 255 |
| Work for other corporations, value.....                     | \$1, 216, 247  | \$1, 486, 380  | \$1, 249, 497    | \$1, 174, 282  |
| All other work or products, value.....                      | \$5, 959, 907  | \$4, 639, 886  | \$3, 900, 209    | \$2, 240, 975  |
| Bridge and building departments (shopwork only), value..... | \$639, 619     | \$438, 624     | \$516, 942       | \$268, 655     |
| Repairs and renewals, value.....                            | \$608, 317     | \$434, 590     | \$420, 445       | \$261, 679     |
| All other work or products, value.....                      | \$31, 302      | \$4, 034       | \$96, 497        | \$6, 976       |
| All other work or products, not classified, value.....      | \$3, 783, 938  | \$3, 599, 275  | \$3, 550, 921    | \$2, 777, 938  |

<sup>1</sup> None reported.



TABLE 11.—ELECTRIC-RAILROAD REPAIR SHOPS—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Salaried officers and employees | Wage earners (average number) |             |
| United States .....                 | 521                      | 34,823                          | 2,302                           | 32,521                        | 70,479      |
| Arizona .....                       | 3                        | 20                              | 3                               | 17                            | 185         |
| Arkansas .....                      | 4                        | 91                              | 5                               | 86                            | 228         |
| California .....                    | 22                       | 3,058                           | 168                             | 2,890                         | 5,582       |
| Colorado .....                      | 5                        | 286                             | 22                              | 264                           | 804         |
| Connecticut .....                   | 16                       | 425                             | 69                              | 356                           | 3,432       |
| Florida .....                       | 6                        | 101                             | 11                              | 90                            | 221         |
| Georgia .....                       | 8                        | 234                             | 26                              | 208                           | 411         |
| Illinois .....                      | 37                       | 3,749                           | 271                             | 3,478                         | 7,291       |
| Indiana .....                       | 27                       | 1,176                           | 64                              | 1,112                         | 1,057       |
| Iowa .....                          | 18                       | 269                             | 26                              | 243                           | 516         |
| Kansas .....                        | 9                        | 131                             | 15                              | 116                           | 235         |
| Kentucky .....                      | 5                        | 225                             | 9                               | 216                           | 494         |
| Louisiana .....                     | 7                        | 245                             | 23                              | 222                           | 469         |
| Maine .....                         | 8                        | 157                             | 11                              | 146                           | 377         |
| Maryland .....                      | 5                        | 940                             | 51                              | 889                           | 698         |
| Massachusetts .....                 | 28                       | 1,467                           | 86                              | 1,381                         | 4,234       |
| Michigan .....                      | 17                       | 846                             | 47                              | 799                           | 1,074       |
| Minnesota .....                     | 5                        | 546                             | 46                              | 500                           | 1,819       |
| Missouri .....                      | 7                        | 1,532                           | 99                              | 1,433                         | 4,603       |
| Montana .....                       | 5                        | 49                              | 5                               | 44                            | 248         |
| New Hampshire .....                 | 4                        | 44                              | 3                               | 41                            | 264         |
| New Jersey .....                    | 11                       | 1,069                           | 40                              | 1,029                         | 3,891       |
| New York .....                      | 43                       | 7,582                           | 483                             | 7,099                         | 10,012      |
| North Carolina .....                | 7                        | 66                              | 10                              | 56                            | 80          |
| Ohio .....                          | 49                       | 2,314                           | 118                             | 2,196                         | 4,029       |
| Oklahoma .....                      | 8                        | 153                             | 12                              | 141                           | 244         |
| Pennsylvania .....                  | 61                       | 4,017                           | 261                             | 3,756                         | 7,194       |
| Rhode Island .....                  | 4                        | 208                             | 19                              | 189                           | 543         |
| Tennessee .....                     | 6                        | 365                             | 15                              | 350                           | 768         |
| Texas .....                         | 14                       | 662                             | 49                              | 613                           | 1,297       |
| Utah .....                          | 3                        | 134                             | 7                               | 127                           | 1,116       |
| Virginia .....                      | 10                       | 276                             | 30                              | 246                           | 603         |
| Washington .....                    | 11                       | 477                             | 31                              | 446                           | 1,829       |
| West Virginia .....                 | 9                        | 181                             | 11                              | 170                           | 463         |
| Wisconsin .....                     | 14                       | 687                             | 90                              | 597                           | 2,126       |
| All other States <sup>1</sup> ..... | 25                       | 1,011                           | 66                              | 945                           | 2,482       |

See footnotes at end of table.

TABLE 11.—ELECTRIC-RAILROAD REPAIR SHOPS—GENERAL STATISTICS, BY STATES: 1925—Continued

[See note at head of this table]

| STATE                               | Salaries    | Wages        | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|-------------|--------------|------------------------|-------------------|-------------------|---|
| United States .....                 | \$4,945,296 | \$48,357,386 | \$121,883              | \$20,738,148      | \$83,812,220      | \$54,074,072                            |
| Arizona .....                       | 3,793       | 23,654       | 441                    | 10,710            | 38,598            | 27,888                                  |
| Arkansas .....                      | 10,441      | 70,708       | -----                  | 85,599            | 168,837           | 53,238                                  |
| California .....                    | 342,468     | 4,163,549    | 14,044                 | 2,239,642         | 6,789,591         | 4,549,949                               |
| Colorado .....                      | 45,949      | 416,078      | 511                    | 432,371           | 894,909           | 462,538                                 |
| Connecticut .....                   | 168,798     | 527,962      | 1,185                  | 513,665           | 1,217,276         | 708,611                                 |
| Florida .....                       | 22,890      | 108,131      | 1,142                  | 88,156            | 220,319           | 132,163                                 |
| Georgia .....                       | 53,099      | 260,996      | -----                  | 218,643           | 563,596           | 344,953                                 |
| Illinois .....                      | 724,592     | 5,287,055    | -----                  | 2,869,164         | 8,968,993         | 6,099,829                               |
| Indiana .....                       | 132,121     | 1,332,900    | -----                  | 967,358           | 2,457,324         | 1,489,966                               |
| Iowa .....                          | 53,129      | 303,598      | 34,451                 | 224,052           | 623,850           | 399,798                                 |
| Kansas .....                        | 32,932      | 141,673      | -----                  | 95,751            | 271,380           | 175,629                                 |
| Kentucky .....                      | 28,787      | 284,869      | -----                  | 218,533           | 532,189           | 313,656                                 |
| Louisiana .....                     | 45,451      | 321,227      | -----                  | 168,456           | 535,134           | 366,678                                 |
| Maine .....                         | 24,463      | 180,362      | -----                  | 118,666           | 323,481           | 204,825                                 |
| Maryland .....                      | 98,379      | 1,258,984    | 159                    | 734,478           | 2,092,000         | 1,357,522                               |
| Massachusetts .....                 | 181,677     | 2,122,492    | -----                  | 1,235,093         | 3,603,856         | 2,368,763                               |
| Michigan .....                      | 105,763     | 1,340,044    | 261                    | 702,907           | 2,148,975         | 1,446,068                               |
| Minnesota .....                     | 104,555     | 635,384      | -----                  | 420,333           | 1,160,272         | 739,999                                 |
| Missouri .....                      | 188,673     | 2,149,458    | -----                  | 488,879           | 2,827,010         | 2,338,131                               |
| Montana .....                       | 12,855      | 81,926       | -----                  | 78,945            | 173,726           | 94,781                                  |
| New Hampshire .....                 | 3,700       | 63,996       | -----                  | 58,915            | 121,611           | 67,696                                  |
| New Jersey .....                    | 103,212     | 2,437,367    | -----                  | 1,376,019         | 3,923,520         | 2,547,501                               |
| New York .....                      | 991,928     | 11,309,525   | 58,992                 | 6,764,373         | 19,398,985        | 12,634,612                              |
| North Carolina .....                | 18,491      | 65,120       | -----                  | 101,599           | 185,210           | 83,611                                  |
| Ohio .....                          | 216,948     | 3,025,780    | 3,422                  | 1,918,790         | 5,168,696         | 3,249,906                               |
| Oklahoma .....                      | 24,602      | 189,203      | -----                  | 126,787           | 346,892           | 220,105                                 |
| Pennsylvania .....                  | 558,484     | 4,996,464    | 4,872                  | 3,311,372         | 8,871,192         | 5,559,820                               |
| Rhode Island .....                  | 35,238      | 296,049      | -----                  | 334,193           | 665,480           | 331,287                                 |
| Tennessee .....                     | 31,334      | 425,167      | -----                  | 168,149           | 629,522           | 461,373                                 |
| Texas .....                         | 99,750      | 677,087      | -----                  | 544,252           | 1,325,889         | 781,637                                 |
| Utah .....                          | 9,011       | 174,399      | -----                  | 123,054           | 306,564           | 183,510                                 |
| Virginia .....                      | 59,440      | 286,205      | -----                  | 255,680           | 601,325           | 345,645                                 |
| Washington .....                    | 62,730      | 706,195      | 1,283                  | 628,167           | 1,399,668         | 771,502                                 |
| West Virginia .....                 | 30,122      | 287,840      | -----                  | 176,761           | 494,723           | 317,962                                 |
| Wisconsin .....                     | 176,825     | 966,556      | -----                  | 977,479           | 2,122,017         | 1,144,538                               |
| All other States <sup>1</sup> ..... | 142,666     | 1,439,383    | 520                    | 966,167           | 2,639,609         | 1,673,442                               |

<sup>1</sup> Alabama, 8 establishments; Delaware, 1; District of Columbia, 2; Idaho, 2; Mississippi, 3; Nebraska, 2; North Dakota, 2; Oregon, 2; South Carolina, 1; South Dakota, 1; Vermont, 1.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

## Group 16.—MISCELLANEOUS INDUSTRIES

### THE GROUP AS A WHOLE

This group comprises all industries not included in the preceding 15 groups. Some of them could not be properly classified in any of the other groups because of the varied character of the materials; others because of the peculiar nature or use of the products.

To a large extent the industries of this group are those which use as materials the products of certain industries belonging to Groups 2 to 10; for example, textiles, iron and steel, brass and bronze, lumber, leather, rubber, paper, glass, and chemicals. Group 16 includes a few industries, however, which use strictly raw materials, such as bone and shell for making buttons, hairpins, and fancy articles; broom corn for brooms; straw for straw hats; sand for foundry supplies and sandpaper; and various stones, such as granite, sandstone, etc., for paving preparations.

This group includes also a class of industries whose manufacturing operations consist principally in processes or treatments which prepare commodities for the trade or the market but produce little change in their character. These industries include "Feathers, plumes, and manufactures thereof," "Furs, dressed," "Hair work," and "Lapidary work."

The "Engravers' materials" industry, classified in this group at the census for 1923, has been transferred to Group 7.

The following table gives summary statistics for the group as a whole and for each industry separately. On pp. 1165 to 1169 is presented a detailed report on the manufacture of "Buttons," which has been published in pamphlet form, and following this, on pp. 1170 to 1192, are given brief descriptions of the remaining industries in the group and summary statistics for these industries.

#### SUMMARY FOR GROUP 16, MISCELLANEOUS INDUSTRIES: 1919 TO 1925

[Data for establishments reporting products valued at less than \$5,000 are included in the figures for 1919 but not in those for subsequent years. See headnote to summary for Group 7, p. 632]

| INDUSTRY  | Cen-<br>sus<br>year | Num-<br>ber of<br>estab-<br>lish-<br>ments | Wage<br>earn-<br>ers<br>(average<br>number) | Wages    | Cost of<br>materials | Value of<br>products | Value<br>added by<br>manu-<br>facture | Horse-<br>power |
|---|---------------------|--|---|----------|----------------------|----------------------|---------------------------------------|-----------------|
|   |                     |  |   |          |                      |                      |                                       |                 |
|   |                     |  |   |          |                      |                      |                                       |                 |
| Total-----  | 1925                | 11, 234                                    | 262, 079                                    | 336, 958 | 833, 630             | 1, 815, 570          | 981, 940                              | 604, 826        |
|   | 1923                | 11, 310                                    | 271, 591                                    | 333, 678 | 794, 367             | 1, 684, 415          | 890, 048                              | 577, 660        |
|   | 1921                | 10, 852                                    | 223, 448                                    | 267, 520 | 614, 470             | 1, 299, 995          | 685, 525                              | (1)             |
|   | 1919                | 14, 228                                    | 290, 853                                    | 312, 032 | 841, 918             | 1, 663, 551          | 821, 633                              | 622, 900        |
| Artificial and preserved flow-<br>ers and plants. | 1925                | 187  | 4, 305                                      | 4, 287   | 7, 265               | 17, 824              | 10, 559                               | 737             |
|   | 1923                | 223  | 4, 696                                      | 4, 502   | 8, 692               | 19, 650              | 10, 958                               | 847             |
|   | 1921                | 201  | 3, 883                                      | 3, 821   | 5, 850               | 14, 188              | 8, 338                                | (1)             |
|   | 1919                | 224  | 4, 138                                      | 3, 741   | 7, 005               | 16, 143              | 9, 138                                | 468             |
| Artificial limbs-----                             | 1925                | 123  | 562   | 794      | 627                  | 3, 021               | 2, 394                                | 955             |
|   | 1923                | 108  | 493   | 711      | 613                  | 2, 635               | 2, 022                                | 892             |
|   | 1921                | 105  | 500   | 725      | 619                  | 2, 451               | 1, 832                                | (1)             |
|   | 1919                | 177  | 671   | 794      | 774                  | 3, 271               | 2, 497                                | 857             |
| Artists' materials-----                           | 1925                | 62   | 1, 317                                      | 1, 568   | 3, 802               | 8, 321               | 4, 519                                | 2, 982          |
|   | 1923                | 61   | 1, 411                                      | 1, 747   | 4, 355               | 8, 639               | 4, 284                                | 4, 902          |
|   | 1921                | 55   | 1, 008                                      | 1, 199   | 3, 990               | 6, 960               | 2, 970                                | (1)             |
|   | 1919                | 58   | 926   | 896      | 2, 687               | 5, 508               | 2, 821                                | 3, 202          |

See footnotes at end of table.

## SUMMARY FOR GROUP 16, MISCELLANEOUS INDUSTRIES: 1919 to 1925—Con.

[See note at head of this summary, p. 1161]

| INDUSTRY   | Cen-<br>sus<br>year | Num-<br>ber of<br>estab-<br>lish-<br>ments | Wage<br>earn-<br>ers<br>(average<br>number) | Wages  | Cost of<br>materials | Value of<br>products | Value<br>added by<br>manu-<br>facture | Horse-<br>power |
|--|---------------------|--|---|--------|----------------------|----------------------|---------------------------------------|-----------------|
|  |                     |  |   |        |                      |                      |                                       |                 |
|  |                     |  |   |        |                      |                      |                                       |                 |
| Brooms-----  | 1925                | 421  | 4,725                                       | 4,654  | 11,213               | 21,714               | 10,501                                | 5,399           |
|  | 1923                | 444  | 4,730                                       | 4,482  | 14,934               | 26,262               | 11,323                                | 4,960           |
|  | 1921                | 459  | 4,302                                       | 3,872  | 10,417               | 18,188               | 7,771                                 | (1)             |
|  | 1919                | 1,034                                      | 6,313                                       | 5,709  | 17,365               | 30,205               | 12,840                                | 6,037           |
| Brushes, other than rubber----   | 1925                | 302  | 7,836                                       | 8,452  | 22,021               | 45,824               | 23,803                                | 11,220          |
|  | 1923                | 306  | 8,719                                       | 9,208  | 25,570               | 50,512               | 24,942                                | 10,276          |
|  | 1921                | 277  | 6,460                                       | 6,415  | 18,665               | 35,545               | 16,880                                | (1)             |
|  | 1919                | 379  | 7,968                                       | 7,113  | 19,598               | 39,006               | 19,408                                | 7,307           |
| Buttons-----   | 1925                | 289  | 11,513                                      | 10,893 | 12,373               | 32,458               | 20,085                                | 15,840          |
|  | 1923                | 336  | 11,860                                      | 11,229 | 13,200               | 32,750               | 19,550                                | 15,334          |
|  | 1921                | 346  | 9,686                                       | 8,512  | 10,406               | 26,534               | 16,128                                | (1)             |
|  | 1919                | 557  | 15,577                                      | 13,773 | 16,745               | 41,840               | 25,095                                | 15,706          |
| Combs and hairpins, not made<br>from metal or rubber.  | 1925                | 44   | 1,300                                       | 1,293  | 2,334                | 5,270                | 2,936                                 | 1,892           |
|  | 1923                | 42   | 2,144                                       | 2,267  | 4,583                | 8,770                | 4,187                                 | 1,919           |
|  | 1921                | 38   | 1,321                                       | 1,277  | 2,172                | 4,580                | 2,408                                 | (1)             |
|  | 1919                | 45   | 2,229                                       | 1,809  | 3,169                | 6,566                | 3,397                                 | 1,588           |
| Dairymen's supplies; cream-<br>ery, cheese-factory, and but-<br>ter-factory equipment; and<br>poultrymen's and apiarists'<br>supplies. | 1925                | 180  | 4,844                                       | 5,864  | 15,421               | 37,263               | 21,842                                | 14,719          |
|  | 1923                | 192  | 5,783                                       | 6,643  | 17,587               | 39,463               | 21,876                                | 14,308          |
|  | 1921                | 180  | 3,841                                       | 4,414  | 13,085               | 27,044               | 14,559                                | (1)             |
|  | 1919                | 244  | 6,437                                       | 7,078  | 18,527               | 37,397               | 18,870                                | 11,756          |
| Dental goods-----  | 1925                | 326  | 5,303                                       | 6,132  | 21,124               | 38,769               | 17,645                                | 4,366           |
|  | 1923                | 283  | 4,608                                       | 5,081  | 17,160               | 32,423               | 15,263                                | 3,731           |
|  | 1921                | 264  | 4,137                                       | 4,348  | 13,499               | 25,812               | 12,313                                | (1)             |
|  | 1919                | 319  | 5,224                                       | 4,464  | 16,420               | 29,402               | 12,982                                | 2,708           |
| Enameling and japanning-----   | 1925                | 95   | 1,550                                       | 2,170  | 2,250                | 6,896                | 4,646                                 | 3,775           |
|  | 1923                | 83   | 1,315                                       | 1,713  | 1,822                | 5,448                | 3,626                                 | 2,727           |
|  | 1921                | 64   | 615   | 1,018  | 1,060                | 2,520                | 1,460                                 | (1)             |
|  | 1919                | 110  | 989   | 1,051  | 1,172                | 3,416                | 2,244                                 | 1,454           |
| Fancy and miscellaneous arti-<br>cles, not elsewhere classi-<br>fied.  | 1925                | 532  | 14,552                                      | 14,960 | 29,155               | 69,769               | 40,614                                | 9,071           |
|  | 1923                | 542  | 13,522                                      | 13,713 | 28,531               | 63,208               | 34,677                                | 8,098           |
|  | 1921                | 509  | 11,534                                      | 11,088 | 24,384               | 51,406               | 27,022                                | (1)             |
|  | 1919                | 661  | 13,961                                      | 12,208 | 32,591               | 64,054               | 31,463                                | 8,657           |
| Feathers, plumes, and manu-<br>factures thereof.   | 1925                | 70   | 888   | 976    | 1,881                | 4,179                | 2,298                                 | 334             |
|  | 1923                | 131  | 1,712                                       | 1,968  | 3,400                | 7,867                | 4,467                                 | 410             |
|  | 1921                | 135  | 2,064                                       | 2,145  | 4,298                | 8,887                | 4,589                                 | (1)             |
|  | 1919                | 216  | 3,504                                       | 3,406  | 6,695                | 15,378               | 8,683                                 | 502             |
| Foundry supplies-----  | 1925                | 66   | 1,087                                       | 1,360  | 6,904                | 12,723               | 5,819                                 | 10,733          |
|  | 1923                | 64   | 966   | 1,162  | 4,823                | 10,248               | 5,425                                 | 7,736           |
|  | 1921                | 50   | 567   | 676    | 2,775                | 4,966                | 2,191                                 | (1)             |
|  | 1919                | 76   | 906   | 1,032  | 5,667                | 9,955                | 4,288                                 | 6,327           |
| Fuel, manufactured-----  | 1925                | 14   | 246   | 369    | 3,935                | 6,019                | 2,084                                 | 6,573           |
|  | 1923                | 15   | 364   | 511    | 3,907                | 5,584                | 1,677                                 | 7,623           |
|  | 1921                | 14   | 371   | 484    | 2,280                | 3,178                | 898                                   | (1)             |
|  | 1919                | 11   | 171   | 222    | 1,386                | 1,974                | 588                                   | 5,180           |
| Fur goods-----   | 1925                | 2,000                                      | 16,556                                      | 35,164 | 159,316              | 254,266              | 94,950                                | 4,985           |
|  | 1923                | 1,758                                      | 14,439                                      | 27,923 | 126,162              | 198,043              | 71,881                                | 4,299           |
|  | 1921                | 1,707                                      | 12,052                                      | 22,421 | 84,537               | 139,366              | 54,829                                | (1)             |
|  | 1919                | 1,815                                      | 13,639                                      | 24,149 | 105,597              | 173,138              | 67,541                                | 5,327           |
| Furs, dressed-----   | 1925                | 133  | 5,056                                       | 8,206  | 7,297                | 25,423               | 18,126                                | 9,858           |
|  | 1923                | 162  | 5,203                                       | 8,381  | 7,242                | 25,467               | 18,225                                | 7,776           |
|  | 1921                | 126  | 4,429                                       | 6,759  | 6,071                | 19,157               | 13,086                                | (1)             |
|  | 1919                | 141  | 5,075                                       | 7,098  | 6,339                | 20,385               | 14,046                                | 5,421           |
| Hair work-----   | 1925                | 85   | 864   | 975    | 3,046                | 6,090                | 3,044                                 | 13              |
|  | 1923                | 113  | 1,317                                       | 1,352  | 5,568                | 11,264               | 5,696                                 | 17              |
|  | 1921                | 128  | 1,222                                       | 1,256  | 6,734                | 10,952               | 4,218                                 | (1)             |
|  | 1919                | 198  | 1,084                                       | 1,065  | 3,829                | 6,963                | 3,134                                 | 119             |
| Hand stamps and stencils and<br>brands.  | 1925                | 323  | 2,930                                       | 4,015  | 4,070                | 15,321               | 11,251                                | 3,658           |
|  | 1923                | 255  | 2,312                                       | 3,035  | 3,103                | 11,131               | 8,028                                 | 2,571           |
|  | 1921                | 234  | 2,068                                       | 2,657  | 2,785                | 9,079                | 6,294                                 | (1)             |
|  | 1919                | 382  | 2,136                                       | 2,262  | 3,148                | 9,337                | 6,189                                 | 1,848           |
| Hats, straw-----   | 1925                | 83   | 5,920                                       | 5,823  | 15,178               | 28,154               | 12,976                                | 3,541           |
|  | 1923                | 97   | 6,812                                       | 7,523  | 16,341               | 32,569               | 16,228                                | 3,673           |
|  | 1921                | 110  | 5,924                                       | 6,415  | 14,560               | 28,617               | 14,057                                | (1)             |
|  | 1919                | 148  | 7,302                                       | 6,605  | 16,910               | 32,187               | 15,277                                | 3,382           |

See footnotes at end of table.

## SUMMARY FOR GROUP 16, MISCELLANEOUS INDUSTRIES: 1919 TO 1925—Con.

[See note at head of this summary, p. 1161]

| INDUSTRY  | Cen-<br>sus<br>Year | Number<br>of estab-<br>lish-<br>ments | Wage<br>earners<br>(average<br>number) | Wages   | Cost of<br>materials | Value of<br>products | Value<br>added by<br>manu-<br>facture | Horse-<br>power |
|---|---------------------|---------------------------------------|--|---------|----------------------|----------------------|---------------------------------------|-----------------|
|   |                     |                                       |  |         |                      |                      |                                       |                 |
| Instruments, professional and<br>scientific.  | 1925                | 233                                   | 12, 129                                | 16, 166 | 20, 428              | 76, 339              | 55, 911                               | 17, 595         |
|   | 1923                | 258                                   | 12, 275                                | 15, 503 | 18, 040              | 63, 074              | 45, 034                               | 16, 203         |
|   | 1921                | 266                                   | 9, 384                                 | 11, 700 | 13, 326              | 42, 132              | 28, 806                               | (1)             |
|   | 1919                | 351                                   | 15, 931                                | 17, 500 | 19, 495              | 58, 137              | 38, 042                               | 12, 981         |
| Ivory, shell, and bone work,<br>not including buttons,<br>combs, or hairpins.   | 1925                | 29                                    | 488                                    | 555     | 727                  | 1, 879               | 1, 152                                | 892             |
|   | 1923                | 30                                    | 603                                    | 663     | 1, 121               | 2, 441               | 1, 320                                | 880             |
|   | 1921                | 39                                    | 674                                    | 690     | 1, 144               | 2, 395               | 1, 251                                | (1)             |
|   | 1919                | 44                                    | 842                                    | 735     | 1, 294               | 2, 817               | 1, 523                                | 879             |
| Jewelry and instrument cases.   | 1925                | 125                                   | 2, 748                                 | 2, 750  | 3, 833               | 10, 114              | 6, 281                                | 2, 460          |
|   | 1923                | 111                                   | 2, 977                                 | 2, 904  | 4, 417               | 10, 506              | 6, 089                                | 1, 662          |
|   | 1921                | 107                                   | 2, 241                                 | 2, 088  | 2, 713               | 7, 036               | 4, 323                                | (1)             |
|   | 1919                | 142                                   | 2, 734                                 | 2, 148  | 3, 506               | 8, 126               | 4, 620                                | 1, 075          |
| Lapidary work.  | 1925                | 83                                    | 589                                    | 1, 285  | 7, 273               | 10, 123              | 2, 850                                | 515             |
|   | 1923                | 87                                    | 644                                    | 1, 286  | 5, 887               | 9, 130               | 3, 243                                | 566             |
|   | 1921                | 64                                    | 399                                    | 738     | 2, 840               | 4, 345               | 1, 505                                | (1)             |
|   | 1919                | 124                                   | 1, 155                                 | 2, 838  | 10, 363              | 30, 051              | 10, 688                               | 680             |
| Mattresses and bed springs,<br>not elsewhere classified.  | 1925                | 1, 018                                | 14, 403                                | 17, 430 | 62, 489              | 110, 717             | 48, 228                               | 32, 840         |
|   | 1923                | 1, 015                                | 14, 103                                | 16, 473 | 61, 477              | 107, 562             | 46, 085                               | 30, 324         |
|   | 1921                | 889                                   | 11, 748                                | 13, 547 | 42, 056              | 74, 624              | 32, 568                               | (1)             |
|   | 1919                | 1, 041                                | 12, 637                                | 12, 805 | 40, 209              | 83, 953              | 34, 744                               | 23, 387         |
| Models and patterns, not in-<br>cluding paper patterns.   | 1925                | 689                                   | 5, 262                                 | 9, 420  | 4, 927               | 22, 485              | 17, 558                               | 10, 473         |
|   | 1923                | 697                                   | 5, 813                                 | 9, 766  | 11, 188              | 30, 165              | 18, 977                               | 12, 072         |
|   | 1921                | 656                                   | 3, 936                                 | 6, 027  | 4, 042               | 15, 742              | 11, 700                               | (1)             |
|   | 1919                | 928                                   | 6, 949                                 | 10, 318 | 6, 396               | 25, 300              | 18, 904                               | 13, 750         |
| Motion pictures, not includ-<br>ing projection in theaters.   | 1925                | 132                                   | 5, 573                                 | 13, 066 | 33, 258              | 93, 636              | 60, 378                               | 29, 472         |
|   | 1923                | 97                                    | 6, 408                                 | 16, 601 | 30, 657              | 86, 418              | 55, 761                               | 15, 476         |
|   | 1921                | 127                                   | 6, 259                                 | 14, 740 | 31, 190              | 77, 397              | 46, 207                               | (1)             |
|   | 1919                | 50                                    | 3, 646                                 | 6, 709  | 19, 579              | 36, 705              | 17, 126                               | 4, 169          |
| Optical goods.  | 1925                | 117                                   | 8, 642                                 | 10, 439 | 9, 997               | 33, 655              | 23, 658                               | 11, 017         |
|   | 1923                | 457                                   | 12, 205                                | 14, 338 | 19, 112              | 54, 462              | 35, 350                               | 13, 397         |
|   | 1921                | 452                                   | 11, 120                                | 12, 723 | 16, 520              | 44, 202              | 27, 772                               | (1)             |
|   | 1919                | 506                                   | 14, 723                                | 14, 388 | 17, 785              | 53, 718              | 35, 933                               | 15, 649         |
| Paving materials, other than<br>brick.  | 1925                | 604                                   | 17, 941                                | 22, 368 | 33, 435              | 90, 630              | 57, 195                               | 207, 469        |
|   | 1923                | 627                                   | 19, 442                                | 22, 109 | 24, 842              | 71, 456              | 46, 614                               | 197, 290        |
|   | 1921                | 653                                   | 15, 387                                | 17, 285 | 24, 474              | 61, 129              | 36, 655                               | (1)             |
|   | 1919                | 889                                   | 16, 072                                | 17, 169 | 16, 020              | 45, 741              | 29, 721                               | 191, 471        |
| Pencils, lead.  | 1925                | 25                                    | 5, 636                                 | 6, 031  | 9, 169               | 25, 051              | 15, 882                               | 8, 209          |
|   | 1923                | 20                                    | 5, 826                                 | 5, 540  | 8, 659               | 24, 568              | 15, 909                               | 7, 288          |
|   | 1921                | 14                                    | 5, 134                                 | 5, 035  | 7, 260               | 21, 382              | 14, 122                               | (1)             |
|   | 1919                | 12                                    | 5, 970                                 | 5, 299  | 9, 074               | 24, 134              | 15, 060                               | 8, 099          |
| Pens, fountain and stylo-<br>graphic.   | 1925                | 60                                    | 3, 490                                 | 4, 055  | 7, 741               | 24, 036              | 16, 295                               | 3, 213          |
|   | 1923                | 53                                    | 3, 398                                 | 3, 659  | 7, 909               | 20, 239              | 12, 330                               | 2, 710          |
|   | 1921                | 51                                    | 2, 742                                 | 3, 044  | 5, 620               | 12, 795              | 7, 175                                | (1)             |
|   | 1919                | 56                                    | 3, 207                                 | 2, 981  | 5, 811               | 15, 997              | 10, 186                               | 1, 492          |
| Photographic apparatus and<br>materials. <sup>3</sup>   | 1925                | 118                                   | 9, 154                                 | 13, 300 | 25, 779              | 78, 654              | 52, 875                               | 22, 866         |
|   | 1923                | 111                                   | 9, 905                                 | 13, 224 | 19, 253              | 71, 828              | 52, 575                               | 34, 791         |
|   | 1921                | 136                                   | 10, 690                                | 13, 771 | 22, 836              | 70, 595              | 47, 759                               | (1)             |
|   | 1919                | 187                                   | 13, 465                                | 14, 900 | 33, 807              | 88, 393              | 54, 586                               | 24, 610         |
| Pipes (tobacco) and cigar and<br>cigarette holders.   | 1925                | 28                                    | 1, 970                                 | 2, 291  | 2, 718               | 7, 299               | 4, 581                                | 2, 052          |
|   | 1923                | 30                                    | 2, 402                                 | 2, 720  | 3, 828               | 9, 705               | 5, 877                                | 2, 354          |
|   | 1921                | 36                                    | 1, 765                                 | 1, 937  | 2, 826               | 7, 124               | 4, 298                                | (1)             |
|   | 1919                | 56                                    | 2, 539                                 | 2, 555  | 3, 497               | 11, 554              | 8, 057                                | 2, 601          |
| Roofing materials, not includ-<br>ing wood, slate, burnt tile,<br>asbestos, or metal other than<br>metal shingles and ceilings. | 1925                | 140                                   | 8, 310                                 | 12, 145 | 78, 597              | 123, 591             | 44, 994                               | 34, 161         |
|   | 1923                | 122                                   | 7, 665                                 | 10, 826 | 55, 520              | 84, 342              | 28, 822                               | 39, 598         |
|   | 1921                | 136                                   | 6, 908                                 | 9, 213  | 45, 013              | 76, 193              | 31, 180                               | (1)             |
|   | 1919                | 178                                   | 8, 871                                 | 10, 344 | 52, 588              | 85, 895              | 33, 307                               | 39, 247         |
| Sandpaper, emery paper, and<br>other abrasive paper and<br>cloth.   | 1925                | 12                                    | 1, 230                                 | 1, 714  | 7, 342               | 15, 623              | 8, 281                                | 4, 513          |
|   | 1923                | 14                                    | 1, 176                                 | 1, 519  | 6, 870               | 13, 753              | 6, 883                                | 3, 694          |
|   | 1921                | 12                                    | 680                                    | 868     | 3, 592               | 6, 462               | 2, 870                                | (1)             |
|   | 1919                | 12                                    | 771                                    | 841     | 5, 061               | 9, 304               | 4, 243                                | 3, 977          |

See footnotes at end of table.

## SUMMARY FOR GROUP 16, MISCELLANEOUS INDUSTRIES: 1919 TO 1925—Con.

[See note at head of this summary, p. 1161]

| INDUSTRY  | Cen-<br>sus<br>year | Num-<br>ber of<br>estab-<br>lish-<br>ments | Wage<br>earners<br>(average<br>number) | Wages   | Cost of<br>materials | Value of<br>products | Value<br>added by<br>manu-<br>facture | Horse-<br>power |
|---|---------------------|--|--|---------|----------------------|----------------------|---------------------------------------|-----------------|
|   |                     |  |  |         |                      |                      |                                       |                 |
| Signs and advertising novel-<br>ties.   | 1925                | 759  | 15, 128                                | 20, 764 | 25, 858              | 89, 669              | 63, 811                               | 12, 550         |
|   | 1923                | 648  | 12, 988                                | 16, 429 | 22, 641              | 67, 224              | 44, 583                               | 11, 781         |
|   | 1921                | 624  | 10, 373                                | 12, 703 | 18, 734              | 53, 271              | 34, 537                               | (1)             |
|   | 1919                | 779  | 10, 432                                | 9, 715  | 16, 072              | 43, 343              | 27, 271                               | 7, 714          |
| Soda-water apparatus-----   | 1925                | 60   | 2, 372                                 | 3, 628  | 8, 632               | 22, 032              | 13, 400                               | 4, 180          |
|   | 1923                | 66   | 2, 659                                 | 3, 779  | 6, 712               | 18, 169              | 11, 457                               | 4, 238          |
|   | 1921                | 62   | 2, 144                                 | 3, 048  | 6, 496               | 15, 407              | 8, 911                                | (1)             |
|   | 1919                | 66   | 2, 599                                 | 3, 232  | 6, 627               | 15, 185              | 8, 553                                | 4, 131          |
| Sporting and athletic goods,<br>not including firearms or<br>ammunition.                            | 1925                | 181  | 8, 724                                 | 10, 262 | 17, 874              | 42, 629              | 24, 755                               | 11, 550         |
|   | 1923                | 170  | 9, 683                                 | 10, 440 | 18, 493              | 41, 797              | 23, 304                               | 11, 091         |
|   | 1921                | 152  | 7, 063                                 | 7, 401  | 15, 401              | 31, 811              | 16, 410                               | (1)             |
|   | 1919                | 188  | 6, 412                                 | 5, 753  | 11, 969              | 23, 840              | 11, 871                               | 6, 780          |
| Stationery goods, not else-<br>where classified.  | 1925                | 217  | 11, 399                                | 12, 076 | 31, 108              | 67, 809              | 36, 701                               | 10, 970         |
|   | 1923                | 225  | 13, 314                                | 14, 628 | 34, 714              | 77, 689              | 42, 975                               | 11, 539         |
|   | 1921                | 221  | 11, 285                                | 12, 399 | 29, 606              | 64, 597              | 34, 991                               | (1)             |
|   | 1919                | 223  | 11, 261                                | 9, 578  | 28, 160              | 58, 363              | 30, 203                               | 8, 342          |
| Steam and other packing, pipe<br>and boiler covering, and<br>gaskets, not made in textile<br>mills. | 1925                | 172  | 6, 086                                 | 8, 072  | 20, 372              | 43, 871              | 23, 499                               | 20, 113         |
|   | 1923                | 142  | 5, 064                                 | 6, 432  | 15, 849              | 32, 991              | 17, 142                               | 17, 671         |
|   | 1921                | 157  | 4, 877                                 | 5, 329  | 15, 984              | 29, 112              | 13, 128                               | (1)             |
|   | 1919                | 169  | 6, 147                                 | 7, 103  | 22, 725              | 40, 525              | 17, 800                               | 26, 755         |
| Surgical appliances-----  | 1925                | 180  | 5, 888                                 | 6, 043  | 26, 187              | 55, 264              | 29, 077                               | 11, 572         |
|   | 1923                | 178  | 5, 375                                 | 5, 597  | 23, 662              | 44, 968              | 21, 306                               | 9, 290          |
|   | 1921                | 190  | 4, 310                                 | 4, 555  | 14, 458              | 32, 495              | 18, 037                               | (1)             |
|   | 1919                | 268  | 6, 390                                 | 6, 084  | 22, 214              | 43, 534              | 21, 320                               | 12, 382         |
| Theatrical scenery and stage<br>equipment.  | 1925                | 33   | 391                                    | 854     | 1, 520               | 3, 578               | 2, 058                                | 413             |
|   | 1923                | 17   | 210                                    | 430     | 635                  | 1, 626               | 991                                   | 162             |
|   | 1921                | 18   | 169                                    | 361     | 492                  | 1, 214               | 722                                   | (1)             |
|   | 1919                | 17   | 149                                    | 238     | 505                  | 1, 067               | 562                                   | 104             |
| Toys (not including children's<br>wheel goods or sleds), games,<br>and playground equipment.        | 1925                | 363  | 14, 162                                | 14, 312 | 23, 398              | 58, 317              | 34, 919                               | 20, 744         |
|   | 1923                | 411  | 14, 484                                | 13, 001 | 23, 829              | 56, 066              | 32, 237                               | 16, 111         |
|   | 1921                | 362  | 9, 448                                 | 8, 953  | 14, 569              | 35, 491              | 20, 922                               | (1)             |
|   | 1919                | 541  | 14, 201                                | 11, 847 | 19, 841              | 45, 557              | 25, 816                               | 14, 423         |
| Umbrellas, parasols, and canes.   | 1925                | 176  | 3, 731                                 | 3, 696  | 16, 594              | 27, 299              | 10, 705                               | 3, 027          |
|   | 1923                | 187  | 3, 776                                 | 3, 739  | 18, 000              | 28, 395              | 10, 395                               | 2, 409          |
|   | 1921                | 154  | 3, 149                                 | 3, 126  | 16, 889              | 26, 008              | 9, 119                                | (1)             |
|   | 1919                | 198  | 3, 368                                 | 3, 140  | 15, 633              | 25, 309              | 9, 676                                | 3, 357          |
| Whips-----  | 1925                | 9  | 103                                    | 73      | 132                  | 308                  | 176                                   | 158             |
|   | 1923                | 12   | 200                                    | 181     | 302                  | 742                  | 440                                   | 334             |
|   | 1921                | 14   | 292                                    | 240     | 428                  | 1, 022               | 594                                   | (1)             |
|   | 1919                | 26   | 717                                    | 582     | 1, 097               | 2, 956               | 1, 889                                | 853             |
| Window shades and fixtures--  | 1925                | 336  | 5, 176                                 | 6, 208  | 25, 030              | 41, 658              | 16, 628                               | 11, 151         |
|   | 1923                | 305  | 5, 957                                 | 6, 826  | 29, 521              | 47, 640              | 18, 119                               | 11, 450         |
|   | 1921                | 242  | 3, 781                                 | 4, 421  | 17, 888              | 29, 648              | 11, 760                               | (1)             |
|   | 1919                | 287  | 4, 411                                 | 3, 669  | 18, 249              | 29, 191              | 10, 942                               | 8, 946          |
| All other industries <sup>5</sup> -----   | 1923                | 5  | 633                                    | 1, 014  | 13, 636              | 15, 526              | 1, 890                                | 1, 330          |
|   | 1921                | 16   | 1, 506                                 | 2, 076  | 9, 886               | 16, 246              | 6, 360                                | (1)             |
|   | 1919                | 95   | 17, 004                                | 25, 086 | 130, 717             | 208, 601             | 77, 884                               | 97, 766         |

<sup>1</sup> Not called for on schedule.<sup>2</sup> The figures for 1919 do not cover the entire industry and are not, therefore, comparable with those for later years. (See footnote 4.)<sup>3</sup> Reported as 2 industries, "Photographic apparatus" and "Photographic materials," for 1921 and 1919.<sup>4</sup> Data for the development of exposed motion-picture films and the printing of projection films, are included in the statistics for the "Photographic materials" industry as published in the report for 1919, are included in this report under "Motion pictures, not including projection in theaters." (See footnotes 2 and 3.)<sup>5</sup> At the census for 1925 it was possible, without disclosing operations of individual establishments, to classify all establishments in the appropriate industries, and therefore no "All other industries" items are shown for 1925. For preceding census years the distribution was as follows:

For 1923: "Pulp, from fiber other than wood," 2 establishments; "Tin plate andterneplate, not made in rolling mills," 3.

For 1921: "Butter, reworking," 3 establishments; "Oakum," 2; "Ordnance and accessories," 3; "Pulp, from fiber other than wood," 4; "Tin plate andterneplate," 4.

For 1919: "Butter, reworking," 5 establishments; "Ferro-alloys," 30; "Ordnance and accessories," 26; "Pulp, from fiber other than wood," 5; "Straw goods, not elsewhere classified," 1; "Tin plate andterneplate," 24; "Whalebone cutting," 1; "Wood carpet," 3.

## BUTTONS

[A preliminary report for this industry was published under date of February 17, 1927]

**Description of the industry.**—The establishments classified in this industry are those whose principal products are buttons, parts of buttons, and button blanks and molds.

**Decrease in number of establishments.**—The number of establishments classified in this industry increased somewhat between 1914 and 1919, but decreased greatly from 1919 to 1921 and to a much smaller extent during the following two-year period. (Table 1.) From 1923 to 1925, however, a considerably larger decrease is shown, from 336 establishments in 1923 to 289 in 1925, the net result of a gain of 42 establishments and a loss of 89. Of the 89 establishments lost to the industry, 63 had gone out of business prior to the beginning of 1925, 16 were idle throughout the year, 2 reported as their principal products commodities other than buttons, etc., and were therefore transferred to the appropriate industries, and 8 reported products valued at less than \$5,000. (See sec. 10, p. 5.)

**TABLE 1.—SUMMARY FOR THE UNITED STATES: 1914 TO 1925**

[Data for establishments with products under \$5,000 in value included for 1919 and 1914 but not for subsequent years. See sec. 10, p. 5]

| YEAR OR PERIOD                       | Number of establishments | Wage earners (average number) | Wages        | Paid for contract work | Cost of materials <sup>1</sup> | Value of products | Value added by manufacture <sup>2</sup> | Horse-power         |
|--------------------------------------|--------------------------|-------------------------------|--------------|------------------------|--------------------------------|-------------------|---|---------------------|
| 1925.....                            | 289                      | 11,513                        | \$10,893,176 | \$239,516              | \$12,372,646                   | \$32,458,435      | \$20,085,789                            | 15,840              |
| 1923.....                            | 336                      | 11,860                        | 11,229,008   | 232,038                | 13,199,582                     | 32,750,190        | 19,550,608                              | 15,384              |
| 1921.....                            | 346                      | 9,086                         | 8,511,449    | 88,931                 | 10,405,511                     | 26,533,891        | 16,128,380                              | (3)                 |
| 1919.....                            | 557                      | 15,577                        | 13,772,599   | 338,209                | 16,745,357                     | 41,840,459        | 25,095,102                              | <sup>4</sup> 15,706 |
| 1914.....                            | 517                      | 14,511                        | 6,424,599    | 83,533                 | 8,702,200                      | 20,711,979        | 12,009,779                              | <sup>4</sup> 14,009 |
| PER CENT OF INCREASE OR DECREASE (—) |                          |                               |              |                        |                                |                   |   |                     |
| 1923-1925.....                       | -14.0                    | -2.9                          | -3.0         | 3.2                    | -6.3                           | -0.9              | 2.7                                     | 3.0                 |
| 1921-1923.....                       | -2.9                     | 22.4                          | 31.9         | 160.9                  | 26.8                           | 23.4              | 21.2                                    | -----               |
| 1921-1925.....                       | -16.5                    | 18.9                          | 28.0         | 169.3                  | 18.9                           | 22.3              | 24.5                                    | -----               |
| 1914-1925.....                       | -44.1                    | -20.7                         | 69.6         | 185.4                  | 42.2                           | 56.7              | 67.2                                    | 13.1                |

<sup>1</sup> Including also cost of fuel, electric power, and containers.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> Not called for on schedule.

<sup>4</sup> These figures differ from those published in the reports for 1919 and 1914 because of the exclusion here and the inclusion in the previous reports of data for purchased power other than electric. (See footnote 1, Table 3, p. 1167.)

TABLE 2.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES, 1919 TO 1925, AND FOR SELECTED STATES, 1925

[Some of the States for which no figures are given in this table reported a larger number of wage earners than some of those for which statistics are shown. See headnote, Table 5, p. 1169]

| STATE                   | Average number employed during year | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |          |         |                |         |         |
|-------------------------|-------------------------------------|--|----------|---------|----------------|---------|---------|
|                         |                                     | January  | February | March   | April          | May     | June    |
| United States:          |                                     |  |          |         |                |         |         |
| 1925 <sup>1</sup> ..... | 11, 513                             | 11, 922  | 12, 246  | 12, 331 | 11, 753        | 11, 429 | 11, 154 |
| 1923 <sup>1</sup> ..... | 11, 860                             | 12, 424  | 12, 671  | 12, 735 | 12, 623        | 12, 243 | 11, 695 |
| 1921 <sup>1</sup> ..... | 9, 686                              | <i>6, 166</i>  | 7, 576   | 8, 723  | 9, 528         | 9, 836  | 9, 954  |
| 1919 <sup>1</sup> ..... | 15, 577                             | 14, 839  | 15, 051  | 14, 878 | <i>14, 594</i> | 14, 659 | 15, 049 |
| Connecticut.....        | 889                                 | 1, 034   | 1, 003   | 962     | 898            | 850     | 830     |
| Illinois.....           | 334                                 | 359  | 304      | 348     | 326            | 317     | 307     |
| Indiana.....            | 215                                 | 265  | 254      | 234     | 212            | 177     | 182     |
| Iowa.....               | 2, 284                              | 2, 389   | 2, 440   | 2, 565  | 2, 403         | 2, 297  | 2, 270  |
| Kentucky.....           | 80                                  | 80   | 77       | 78      | 77             | 74      | 71      |
| Massachusetts.....      | 38                                  | 142  | 139      | 141     | 137            | 147     | 137     |
| Missouri.....           | 162                                 | 186  | 179      | 168     | 163            | 151     | 158     |
| New Jersey.....         | 2, 130                              | 2, 195   | 2, 295   | 2, 302  | 2, 219         | 2, 135  | 2, 116  |
| New York.....           | 3, 483                              | 3, 575   | 3, 750   | 3, 779  | 3, 581         | 3, 537  | 3, 330  |
| Pennsylvania.....       | 544                                 | 487  | 497      | 497     | 519            | 529     | 523     |

| STATE                   | NUMBER EMPLOYED ON 15TH DAY OF MONTH OR THE NEAREST REPRESENTATIVE DAY |         |                |         |                |                |
|-------------------------|--|---------|----------------|---------|----------------|----------------|
|                         | July   | August  | Septem-ber     | October | Novem-ber      | Decem-ber      |
| United States:          |  |         |                |         |                |                |
| 1925 <sup>1</sup> ..... | <i>10, 952</i>   | 11, 215 | 11, 056        | 11, 145 | 11, 335        | 11, 619        |
| 1923 <sup>1</sup> ..... | 11, 077  | 11, 201 | <i>10, 929</i> | 11, 301 | 11, 696        | 11, 721        |
| 1921 <sup>1</sup> ..... | 10, 314  | 10, 435 | 10, 530        | 10, 781 | 11, 052        | <b>11, 839</b> |
| 1919 <sup>1</sup> ..... | 15, 663  | 16, 238 | 15, 886        | 16, 333 | <b>18, 876</b> | 16, 858        |
| Connecticut.....        | 803  | 808     | 821            | 878     | 890            | 891            |
| Illinois.....           | 279  | 244     | 316            | 352     | 376            | 420            |
| Indiana.....            | 195  | 218     | 188            | 200     | 223            | 238            |
| Iowa.....               | 2, 033   | 2, 178  | 2, 089         | 2, 140  | 2, 227         | 2, 383         |
| Kentucky.....           | 67   | 67      | 70             | 71      | 115            | 114            |
| Massachusetts.....      | 146  | 153     | 141            | 126     | 122            | 122            |
| Missouri.....           | 171  | 161     | 151            | 151     | 146            | 164            |
| New Jersey.....         | 2, 092   | 2, 100  | 2, 074         | 2, 018  | 2, 022         | 1, 992         |
| New York.....           | 3, 365   | 3, 448  | 3, 391         | 3, 376  | 3, 327         | 3, 336         |
| Pennsylvania.....       | 539  | 555     | 572            | 594     | 606            | 611            |

<sup>1</sup> Month of maximum employment indicated by **bold-faced** figures and that of minimum employment by *italic* figures. Per cent which minimum forms of maximum: 1925, 88.8; 1923, 85.8; 1921, 54.4; 1919, 86.5.



TABLE 3.—PRIME MOVERS, GENERATORS, AND MOTORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1925, 1923, AND 1919

[No data in regard to prime movers were collected for 1921]

| TYPE  | 1925    |                             | 1923    |                          | 1919    |                          |
|---|---------|-----------------------------|---------|--------------------------|---------|--------------------------|
|   | Num-ber | Horse-power                 | Num-ber | Horse-power              | Num-ber | Horse-power              |
| Prime movers, total.....                                    | 1, 157  | 15, 840                     | 1, 114  | 15, 384                  | 1, 104  | <sup>1</sup> 15, 706     |
| Steam engines.....  | 52      | 5, 553                      | 56      | 5, 238                   | 64      | 5, 975                   |
| Steam turbines.....   |         |                             |         |                          | 1       | 300                      |
| Internal-combustion engines.....                            | 20      | 432                         | 32      | 679                      | 71      | 1, 047                   |
| Water wheels and turbines.....                              | 7       | 312                         | 8       | 386                      | 6       | 257                      |
| Electric motors driven by purchased current.....            | 1, 078  | 9, 543                      | 1, 018  | 9, 081                   | 962     | 8, 117                   |
| Electric motors, total.....                                 | 1, 114  | 10, 234                     | 1, 068  | 10, 002                  | 999     | 8, 715                   |
| Driven by purchased current.....                            | 1, 078  | 9, 543                      | 1, 018  | 9, 081                   | 962     | 8, 117                   |
| Driven by current generated in establishment reporting..... | 36      | 691                         | 50      | 921                      | 37      | 598                      |
|   |         | <i>Kilo-watts</i><br>1, 046 |         | <i>Kilo-watts</i><br>(?) |         | <i>Kilo-watts</i><br>(?) |
| Electric generators.....                                    | 7       |                             | (?)     | (?)                      | (?)     | (?)                      |

<sup>1</sup> This total differs from that given in the report for 1919 because of the exclusion here and the inclusion in the 1919 report of data for purchased power other than electric (power generated outside the plant and transmitted into the plant by belt, cable, or shaft).

Not called for on schedule.

TABLE 4.—PRODUCTS, BY CLASS, QUANTITY, AND VALUE: 1919 TO 1925

| CLASS  | 1925         | 1923         | 1921         | 1919             |
|--|--------------|--------------|--------------|------------------|
| Total value.....   | \$32,744,802 | \$33,397,353 | \$27,608,709 | \$42,988,152     |
| Button industry, all products.....                       | \$32,458,435 | \$32,750,190 | \$26,533,891 | \$41,840,459     |
| Buttons, blanks, parts, etc.....                         | 30,854,406   | 30,467,576   | 25,340,436   | 38,718,473       |
| All other products.....                                  | 1,604,029    | 2,282,614    | 1,193,455    | 3,121,986        |
| Buttons, secondary products of other industries.....     | 286,457      | 647,163      | 1,074,818    | 1,147,693        |
| Buttons, blanks, parts, etc., all industries.....        | \$31,140,863 | \$31,114,739 | \$26,415,254 | \$39,866,166     |
| Buttons, total value.....                                | \$27,880,095 | \$27,690,156 | \$23,935,655 | \$35,704,490     |
| Pearl or shell, fresh water—                             |              |              |              |                  |
| Other than shoe—   |              |              |              |                  |
| Gross.....   | 21,688,298   | 20,424,726   |              |                  |
| Value.....   | \$7,611,824  | \$6,952,758  |              |                  |
| Shoe <sup>2</sup> —                                      |              |              |              |                  |
| Gross.....   | 1,816,789    | 2,005,261    | 17,403,589   | 23,969,125       |
| Value.....   | \$875,505    | \$1,180,417  | \$6,596,626  | \$8,199,639      |
| Pearl or shell, ocean—                                   |              |              |              |                  |
| Other than shoe—   |              |              |              |                  |
| Gross.....   | 4,708,417    | 5,031,437    |              |                  |
| Value.....   | \$3,594,332  | \$3,292,826  |              |                  |
| Shoe <sup>2</sup> —                                      |              |              |              |                  |
| Gross.....   | 1,437,025    | 3,108,017    | 5,195,010    | 5,892,344        |
| Value.....   | \$885,995    | \$2,398,237  | \$4,903,534  | \$6,564,105      |
| Vegetable ivory—   |              |              |              |                  |
| Gross.....   | 11,992,988   | 9,485,871    | 7,425,430    | ( <sup>3</sup> ) |
| Value.....   | \$7,468,259  | \$6,336,743  | \$5,133,405  | ( <sup>3</sup> ) |
| Celluloid, value <sup>4</sup> .....                      | \$1,322,796  | \$1,737,837  | \$1,589,349  | \$3,323,148      |
| Horn—  |              |              |              |                  |
| Gross.....   | 1,921,661    | 3,696,907    | 1,844,360    | 2,574,822        |
| Value.....   | \$597,816    | \$1,088,981  | \$966,185    | \$1,110,957      |
| Bone—  |              |              |              |                  |
| Gross.....   | 1,690,976    | 1,617,299    | 1,693,400    | 2,170,800        |
| Value.....   | \$296,343    | \$395,814    | \$488,425    | \$509,165        |
| Shoe, other than pearl and shell—                        |              |              |              |                  |
| Gross.....   | 2,473,039    | 4,016,423    | 1,206,462    | 5,295,169        |
| Value.....   | \$349,492    | \$495,916    | \$290,729    | \$632,217        |
| Glass—   |              |              |              |                  |
| Gross.....   | 197,335      | 52,466       | 69,774       | 570,949          |
| Value.....   | \$171,490    | \$48,132     | \$50,024     | \$260,948        |
| Metal, not including collar and cuff—                    |              |              |              |                  |
| Gross.....   | 6,105,103    | 7,623,638    | 2,466,549    | -----            |
| Value.....   | \$1,734,638  | \$1,942,749  | \$816,169    | -----            |
| Composition—   |              |              |              |                  |
| Gross.....   | 7,337,774    | 5,531,230    |              |                  |
| Value.....   | \$1,272,579  | \$715,764    |              |                  |
| Galalith, value.....                                     | \$275,918    | \$298,173    |              |                  |
| Other, except covered—                                   |              |              |              |                  |
| Gross.....   | 2,584,009    | 1,455,985    | \$2,005,504  | \$13,335,149     |
| Value.....   | \$506,494    | \$179,255    |              |                  |
| Covered <sup>5</sup> —                                   |              |              |              |                  |
| Gross.....   | 1,685,292    | 1,014,988    | 1,389,125    | 2,871,986        |
| Value.....   | \$916,614    | \$626,554    | \$1,095,705  | \$1,769,162      |
| Button blanks and molds, sold as such:                   |              |              |              |                  |
| Gross.....   | 16,580,595   | 14,138,242   | 10,606,935   | 13,092,734       |
| Value.....   | \$3,181,899  | \$3,081,935  | \$2,379,671  | \$3,091,971      |
| Parts of buttons, blanks, etc., sold as such, value..... | \$78,869     | \$342,648    | \$99,928     | \$1,069,705      |

<sup>1</sup> Includes pearl, metal, and celluloid novelties, buckles, slides, and ornaments; and crushed shell for poultry.

<sup>2</sup> Total shoe buttons, 1925..... Gross Value  
 Pearl or shell, fresh water..... 1,816,789 875,505  
 Pearl or shell, ocean..... 1,437,025 885,995  
 Other than pearl or shell..... 2,473,039 349,492

<sup>3</sup> Not reported separately; value included in "All other products."

<sup>4</sup> Data as to quantity incomplete.

<sup>5</sup> Includes secondary button products of other industries, not distributed by class.

<sup>6</sup> This item represents the production of covered buttons made for sale as such to the trade. It does not, therefore, include data for buttons covered to individual order.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1925

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. Certain of the "All other States," however, reported larger values of products than some of the States shown separately.]

| STATE                               | Number of establishments | PERSONS ENGAGED IN THE INDUSTRY |                              |                                 |                               | Horse-power |
|-------------------------------------|--------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|-------------|
|                                     |                          | Total                           | Proprietors and firm members | Salaried officers and employees | Wage earners (average number) |             |
| United States.....                  | 289                      | 12, 776                         | 222                          | 1, 041                          | 11, 513                       | 15, 840     |
| Connecticut.....                    | 13                       | 1, 009                          | 10                           | 110                             | 889                           | 845         |
| Illinois.....                       | 13                       | 359                             | 9                            | 16                              | 334                           | 194         |
| Indiana.....                        | 7                        | 236                             | 7                            | 14                              | 215                           | 270         |
| Iowa.....                           | 43                       | 2, 464                          | 29                           | 151                             | 2, 284                        | 2, 466      |
| Kentucky.....                       | 4                        | 89                              | 2                            | 7                               | 80                            | 102         |
| Massachusetts.....                  | 11                       | 163                             | 9                            | 16                              | 138                           | 222         |
| Missouri.....                       | 5                        | 172                             | 4                            | 6                               | 162                           | 163         |
| New Jersey.....                     | 47                       | 2, 346                          | 29                           | 187                             | 2, 130                        | 3, 299      |
| New York.....                       | 111                      | 3, 976                          | 105                          | 388                             | 3, 483                        | 5, 256      |
| Pennsylvania.....                   | 14                       | 607                             | 13                           | 50                              | 544                           | 885         |
| All other States <sup>1</sup> ..... | 21                       | 1, 355                          | 5                            | 96                              | 1, 254                        | 2, 138      |

  

| STATE                               | Salaries      | Wages          | Paid for contract work | Cost of materials | Value of products | Value added by manufacture <sup>2</sup> |
|-------------------------------------|---------------|----------------|------------------------|-------------------|-------------------|---|
| United States.....                  | \$2, 472, 823 | \$10, 893, 176 | \$239, 516             | \$12, 372, 646    | \$32, 458, 435    | \$20, 085, 789                          |
| Connecticut.....                    | 211, 249      | 881, 862       | 18, 569                | 1, 012, 171       | 2, 762, 027       | 1, 749, 856                             |
| Illinois.....                       | 22, 684       | 259, 282       | 2, 800                 | 164, 353          | 538, 444          | 374, 091                                |
| Indiana.....                        | 17, 140       | 150, 121       | -----                  | 114, 404          | 316, 199          | 201, 795                                |
| Iowa.....                           | 366, 764      | 1, 717, 439    | 65, 060                | 2, 155, 860       | 5, 679, 112       | 3, 523, 252                             |
| Kentucky.....                       | 20, 990       | 56, 890        | 35, 467                | 31, 474           | 186, 356          | 154, 882                                |
| Massachusetts.....                  | 36, 356       | 116, 859       | 2, 792                 | 141, 990          | 429, 981          | 287, 991                                |
| Missouri.....                       | 8, 920        | 125, 155       | -----                  | 70, 703           | 280, 829          | 210, 126                                |
| New Jersey.....                     | 570, 443      | 2, 197, 727    | 11, 043                | 2, 661, 813       | 6, 402, 676       | 3, 740, 863                             |
| New York.....                       | 859, 211      | 3, 710, 654    | 83, 149                | 4, 136, 204       | 10, 746, 331      | 6, 610, 127                             |
| Pennsylvania.....                   | 98, 101       | 512, 484       | 1, 480                 | 749, 919          | 1, 555, 000       | 805, 081                                |
| All other States <sup>1</sup> ..... | 260, 965      | 1, 164, 703    | 19, 156                | 1, 183, 755       | 3, 561, 480       | 2, 427, 725                             |

<sup>1</sup> Arkansas, 4 establishments; California, 2; Kansas, 1; Maine, 1; Michigan, 3; Minnesota, 1; New Hampshire, 1; Ohio, 2; Rhode Island, 2; Tennessee, 1; West Virginia, 1; Wisconsin, 2.

<sup>2</sup> Value of products less cost of materials. (See secs. 20 and 24, pp. 8 and 9.)

<sup>3</sup> See first 5 lines, Table 4.

# SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES

[This table presents summary statistics for the industries in Group 16, except for "Buttons," for which a separate report is given on pp. 1165-1169. More detailed statistics for 1925 are given, for the United States as a whole, in Table II, p. 1283; and summaries for States and for large cities, carrying statistics for these industries in comparison with those for other industries, appear in Tables III and IV, pp. 1302 and 1381. See "General explanations," pp. 3-12; in particular, "Limitation of statistics to establishments reporting products valued at \$5,000 or more," p. 5, "Power equipment," p. 6, "Cost of materials," p. 7, "Value added by manufacture," p. 8, and "State and city statistics," p. 10]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power      | Wages       | Cost of materials | Value of products         | Value added by manufacture |
|--|--------------------------|-------------------------------|------------------|-------------|-------------------|---------------------------|----------------------------|
| <b>ARTIFICIAL AND PRESERVED FLOWERS AND PLANTS</b>   |                          |                               |                  |             |                   |                           |                            |
| <i>Principal products:</i> Artificial flowers, leaves, plants, palms, grasses, vines, buds, and fruit made of textiles, wax, or paper; preserved flowers, plants, stems, and other parts, for use in the manufacture of artificial flowers and also for decorative purposes] |                          |                               |                  |             |                   |                           |                            |
| <i>United States</i>   |                          |                               |                  |             |                   |                           |                            |
| 1925.....  | 187                      | 4,305                         | 737              | \$4,286,651 | \$7,264,858       | <sup>1</sup> \$17,823,841 | \$10,558,983               |
| 1923.....  | 223                      | 4,696                         | 847              | 4,501,701   | 8,692,238         | <sup>1</sup> 19,649,862   | 10,957,624                 |
| 1921.....  | 201                      | 3,883                         | ( <sup>2</sup> ) | 3,820,652   | 5,849,789         | <sup>1</sup> 14,188,221   | 8,338,432                  |
| 1919.....  | 224                      | 4,138                         | 468              | 3,740,911   | 7,004,646         | <sup>1</sup> 16,143,165   | 9,138,519                  |
| <i>States, 1925</i>  |                          |                               |                  |             |                   |                           |                            |
| California.....  | 4                        | 38                            | 17               | 48,412      | 118,888           | 258,428                   | 130,540                    |
| Illinois.....  | 21                       | 414                           | 114              | 437,169     | 1,144,908         | 2,583,846                 | 1,438,938                  |
| Massachusetts.....   | 4                        | 53                            | 6                | 45,265      | 109,956           | 271,995                   | 162,039                    |
| New Jersey.....  | 7                        | 154                           | 69               | 119,118     | 123,243           | 414,493                   | 291,250                    |
| New York.....  | 128                      | 3,095                         | 442              | 3,230,544   | 4,710,183         | 11,941,296                | 7,231,113                  |
| Ohio.....  | 4                        | 29                            | 5                | 30,788      | 240,136           | 577,812                   | 337,676                    |
| Pennsylvania.....  | 8                        | 282                           | 42               | 199,679     | 287,724           | 716,829                   | 429,105                    |
| All other States <sup>3</sup> .....  | 11                       | 240                           | 42               | 175,676     | 529,820           | 1,059,142                 | 529,322                    |

<sup>1</sup> For 1925, includes \$310,233, the value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of artificial and preserved flowers and plants; does not include \$898,727, the value of artificial and preserved flowers and plants reported by establishments engaged primarily in other industries. Corresponding amounts for earlier years not calculated.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Florida, 1 establishment; Indiana, 1; Iowa, 2; Michigan, 2; Missouri, 3; Oregon, 1; Texas, 1.

## ARTIFICIAL LIMBS

*Principal products:* Artificial legs, arms, hands, and feet, orthopedic and deformity appliances and parts thereof, and crutches]

|                                     |     |     |                  |           |           |                          |             |
|-------------------------------------|-----|-----|------------------|-----------|-----------|--------------------------|-------------|
| <i>United States</i>                |     |     |                  |           |           |                          |             |
| 1925.....                           | 123 | 562 | 955              | \$794,091 | \$626,854 | <sup>1</sup> \$3,021,300 | \$2,394,446 |
| 1923.....                           | 108 | 493 | 692              | 711,420   | 613,180   | <sup>1</sup> 2,635,162   | 2,021,982   |
| 1921.....                           | 105 | 500 | ( <sup>2</sup> ) | 724,920   | 619,290   | <sup>1</sup> 2,451,275   | 1,831,985   |
| 1919.....                           | 177 | 671 | 857              | 794,525   | 774,447   | <sup>1</sup> 3,271,406   | 2,496,959   |
| <i>States, 1925</i>                 |     |     |                  |           |           |                          |             |
| California.....                     | 12  | 48  | 51               | 78,047    | 88,269    | 273,843                  | 185,574     |
| Illinois.....                       | 9   | 39  | 28               | 69,502    | 37,738    | 246,801                  | 209,063     |
| Massachusetts.....                  | 7   | 23  | 44               | 35,160    | 26,604    | 121,915                  | 95,311      |
| Michigan.....                       | 3   | 13  | 12               | 18,202    | 22,183    | 72,496                   | 50,313      |
| Minnesota.....                      | 9   | 68  | 89               | 86,509    | 53,587    | 346,380                  | 292,793     |
| Missouri.....                       | 7   | 50  | 52               | 63,607    | 38,817    | 232,813                  | 193,996     |
| New Hampshire.....                  | 4   | 28  | 254              | 27,007    | 29,450    | 115,671                  | 86,221      |
| New York.....                       | 13  | 59  | 70               | 95,839    | 51,738    | 347,458                  | 295,720     |
| Ohio.....                           | 10  | 28  | 21               | 48,128    | 31,585    | 147,007                  | 115,422     |
| Oregon.....                         | 3   | 6   | 2                | 7,697     | 5,088     | 25,020                   | 19,932      |
| Pennsylvania.....                   | 15  | 70  | 63               | 91,817    | 88,405    | 376,075                  | 287,670     |
| Texas.....                          | 4   | 13  | 36               | 16,562    | 18,063    | 74,409                   | 56,346      |
| Washington.....                     | 4   | 18  | 12               | 18,630    | 15,054    | 56,885                   | 41,831      |
| All other States <sup>3</sup> ..... | 23  | 99  | 221              | 137,384   | 120,273   | 584,527                  | 464,254     |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of artificial limbs: 1925, \$87,171; corresponding amounts for earlier years not calculated. Does not include the following values of artificial limbs made as secondary products by establishments classified in other industries: 1925, \$71,199; 1923, \$120,571; 1921, \$39,300; 1919, \$44,482.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 2 establishments; Colorado, 2; District of Columbia, 2; Georgia, 3; Indiana, 2; Iowa, 2; Kentucky, 1; Louisiana, 2; Maryland, 2; Nebraska, 1; Tennessee, 1; Utah, 1; Wisconsin, 2.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## ARTISTS' MATERIALS

[Principal products: Wax, chalk, and clay crayons; oil paints and water colors, ceramic paints, size, and drawing inks; artists' canvas, drawing boards, and palettes; air brushes, sprayers, and accessories]

|                                     |    |       |       |             |             |             |             |
|-------------------------------------|----|-------|-------|-------------|-------------|-------------|-------------|
| <i>United States</i>                |    |       |       |             |             |             |             |
| 1925.....                           | 62 | 1,317 | 2,982 | \$1,567,746 | \$3,802,420 | \$8,320,776 | \$4,518,356 |
| 1923.....                           | 61 | 1,411 | 4,902 | 1,747,175   | 4,355,150   | 8,638,744   | 4,283,594   |
| 1921.....                           | 55 | 1,008 | (?)   | 1,198,814   | 3,989,642   | 6,959,766   | 2,970,124   |
| 1919.....                           | 58 | 926   | 3,206 | 895,764     | 2,687,226   | 5,507,666   | 2,820,430   |
| <i>States, 1925</i>                 |    |       |       |             |             |             |             |
| Illinois.....                       | 9  | 117   | 198   | 156,423     | 888,714     | 1,320,296   | 431,582     |
| Massachusetts.....                  | 6  | 66    | 98    | 73,897      | 105,766     | 286,966     | 181,090     |
| New Jersey.....                     | 6  | 74    | 135   | 91,113      | 433,830     | 670,541     | 236,711     |
| New York.....                       | 18 | 325   | 224   | 383,408     | 489,075     | 1,476,455   | 987,380     |
| Pennsylvania.....                   | 10 | 309   | 1,115 | 346,939     | 1,021,874   | 1,828,949   | 807,075     |
| All other States <sup>3</sup> ..... | 13 | 426   | 1,212 | 515,966     | 863,051     | 2,737,569   | 1,874,518   |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of artists' materials; 1925, \$244,370; corresponding amounts for earlier years not calculated. Does not include the following values of artists' materials made as secondary products by establishments classified in other industries: 1925, \$3,637,497; 1923, \$166,651; 1921, \$100,277; 1919, \$999,633.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 2 establishments; Connecticut, 2; District of Columbia, 1; Georgia, 1; Indiana, 2; Michigan, 1; Missouri, 2; Ohio, 2. Ohio reported a larger value of products than any of the States for which figures are shown.

## BROOMS

[Principal products: Brooms of all classes, including whisk brooms, street brooms, and stable brooms]

|                                     |       |       |       |             |              |              |              |
|-------------------------------------|-------|-------|-------|-------------|--------------|--------------|--------------|
| <i>United States</i>                |       |       |       |             |              |              |              |
| 1925.....                           | 421   | 4,725 | 5,399 | \$4,653,656 | \$11,213,381 | \$21,714,194 | \$10,500,813 |
| 1923.....                           | 444   | 4,730 | 4,960 | 4,481,645   | 14,932,827   | 26,261,834   | 11,329,007   |
| 1921.....                           | 459   | 4,302 | (?)   | 3,871,895   | 10,417,147   | 18,188,376   | 7,771,229    |
| 1919.....                           | 1,034 | 6,313 | 6,037 | 5,708,885   | 17,365,109   | 30,205,267   | 12,840,158   |
| <i>States, 1925</i>                 |       |       |       |             |              |              |              |
| Alabama.....                        | 8     | 71    | 44    | 66,446      | 178,814      | 317,344      | 138,530      |
| California.....                     | 24    | 179   | 136   | 215,849     | 450,483      | 898,106      | 447,623      |
| Connecticut.....                    | 3     | 8     | 10    | 11,001      | 20,270       | 36,590       | 16,320       |
| Florida.....                        | 7     | 88    | 228   | 67,470      | 84,935       | 187,331      | 102,396      |
| Georgia.....                        | 10    | 100   | 61    | 58,844      | 148,981      | 293,846      | 144,865      |
| Illinois.....                       | 38    | 429   | 833   | 522,104     | 1,144,441    | 2,304,891    | 1,160,450    |
| Indiana.....                        | 14    | 361   | 437   | 290,109     | 718,247      | 1,465,643    | 747,396      |
| Iowa.....                           | 23    | 176   | 250   | 185,522     | 367,436      | 827,060      | 459,624      |
| Kansas.....                         | 10    | 80    | 130   | 80,001      | 176,701      | 395,705      | 219,004      |
| Kentucky.....                       | 14    | 196   | 402   | 135,118     | 765,989      | 1,156,357    | 390,368      |
| Louisiana.....                      | 7     | 53    | 59    | 49,879      | 105,319      | 213,388      | 108,019      |
| Maryland.....                       | 11    | 366   | 188   | 272,455     | 660,353      | 1,183,517    | 523,164      |
| Massachusetts.....                  | 11    | 57    | 44    | 68,503      | 137,611      | 318,265      | 160,754      |
| Michigan.....                       | 7     | 55    | 52    | 78,986      | 130,601      | 290,867      | 160,266      |
| Minnesota.....                      | 14    | 85    | 70    | 101,862     | 201,982      | 418,977      | 216,995      |
| Missouri.....                       | 19    | 174   | 154   | 165,147     | 475,790      | 902,209      | 426,449      |
| Nebraska.....                       | 5     | 203   | 152   | 154,212     | 388,203      | 726,186      | 337,923      |
| New Jersey.....                     | 6     | 121   | 73    | 112,728     | 399,068      | 647,456      | 248,388      |
| New York.....                       | 35    | 604   | 614   | 743,167     | 1,413,895    | 2,733,945    | 1,320,050    |
| North Carolina.....                 | 5     | 37    | 30    | 28,502      | 105,929      | 178,075      | 72,146       |
| Ohio.....                           | 26    | 249   | 258   | 275,190     | 479,395      | 1,025,564    | 546,169      |
| Oklahoma.....                       | 7     | 56    | 33    | 32,217      | 123,897      | 237,637      | 113,740      |
| Oregon.....                         | 4     | 54    | 134   | 34,390      | 97,897       | 208,575      | 110,678      |
| Pennsylvania.....                   | 40    | 354   | 485   | 361,058     | 941,668      | 1,720,554    | 778,886      |
| Rhode Island.....                   | 3     | 8     | 12    | 7,760       | 17,500       | 30,800       | 13,300       |
| Tennessee.....                      | 7     | 41    | 38    | 29,100      | 70,512       | 177,528      | 107,016      |
| Texas.....                          | 22    | 213   | 153   | 179,206     | 432,062      | 936,381      | 504,319      |
| Washington.....                     | 6     | 34    | 37    | 37,523      | 63,155       | 173,769      | 110,614      |
| Wisconsin.....                      | 15    | 81    | 70    | 88,855      | 227,702      | 457,621      | 229,859      |
| All other States <sup>3</sup> ..... | 20    | 192   | 198   | 160,449     | 664,555      | 1,290,057    | 555,502      |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of brooms; 1925, \$611,505; corresponding amounts for earlier years not calculated. Does not include the following values of brooms made as secondary products by establishments classified in other industries: 1925, \$1,068,971; 1923, \$200,034; 1921, \$220,697; 1919, \$228,705.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Arizona, 1 establishment; Arkansas, 2; Colorado, 4; Maine, 2; Mississippi, 2; Montana, 1; New Hampshire, 1; South Carolina, 1; South Dakota, 1; Virginia, 2; West Virginia, 3.

SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE  
REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE  | Number of establishments | Wage earners (average number) | Horse-power      | Wages       | Cost of materials | Value of products         | Value added by manufacture |
|---|--------------------------|-------------------------------|------------------|-------------|-------------------|---------------------------|----------------------------|
| <b>BRUSHES, OTHER THAN RUBBER</b>   |                          |                               |                  |             |                   |                           |                            |
| <i>[Principal products: (1) Brushes for toilet purposes, as hairbrushes, toothbrushes, nailbrushes, shaving brushes, etc.; (2) paint and varnish brushes and artists' brushes; (3) household brushes; (4) industrial brushes, including textile-machine brushes, comb cards, loom dusters, mechanical brushes, acid brushes, and brushes and buffs for jewelers, silversmiths, and metal workers. The materials used are bristles, hair, wool, feathers, vegetable fiber, and wire]</i> |                          |                               |                  |             |                   |                           |                            |
| <i>United States</i>  |                          |                               |                  |             |                   |                           |                            |
| 1925.....   | 302                      | 7,836                         | 11,220           | \$8,452,209 | \$22,021,444      | <sup>1</sup> \$45,824,215 | \$23,802,771               |
| 1923.....   | 306                      | 8,719                         | 10,276           | 9,208,272   | 25,569,661        | <sup>1</sup> 50,511,239   | 24,941,578                 |
| 1921.....   | 277                      | 6,460                         | ( <sup>2</sup> ) | 6,415,340   | 18,664,652        | <sup>1</sup> 35,544,514   | 16,879,862                 |
| 1919.....   | 379                      | 7,968                         | 7,307            | 7,113,201   | 19,598,133        | <sup>1</sup> 39,005,607   | 19,407,474                 |
| <i>States, 1925</i>   |                          |                               |                  |             |                   |                           |                            |
| California.....   | 8                        | 95                            | 67               | 65,509      | 232,454           | 545,671                   | 313,217                    |
| Connecticut.....  | 8                        | 429                           | 418              | 425,981     | 1,562,305         | 3,675,733                 | 2,113,428                  |
| Illinois.....   | 27                       | 276                           | 253              | 401,198     | 1,096,707         | 2,052,346                 | 955,639                    |
| Maryland.....   | 7                        | 859                           | 1,329            | 783,363     | 2,496,664         | 4,316,203                 | 1,819,539                  |
| Massachusetts.....  | 25                       | 1,451                         | 1,411            | 1,444,967   | 2,715,136         | 7,597,860                 | 4,882,724                  |
| Michigan.....   | 10                       | 119                           | 180              | 140,971     | 375,720           | 697,614                   | 321,894                    |
| Minnesota.....  | 6                        | 115                           | 59               | 109,120     | 511,834           | 816,422                   | 304,588                    |
| Missouri.....   | 5                        | 42                            | 25               | 39,756      | 67,240            | 187,161                   | 119,921                    |
| New Jersey.....   | 26                       | 813                           | 454              | 1,006,457   | 2,522,516         | 4,462,174                 | 1,939,658                  |
| New York.....   | 87                       | 1,705                         | 1,891            | 1,964,091   | 4,874,478         | 9,360,579                 | 4,486,101                  |
| Ohio.....   | 24                       | 739                           | 3,255            | 883,395     | 2,027,831         | 4,859,941                 | 2,832,110                  |
| Pennsylvania.....   | 24                       | 332                           | 411              | 390,885     | 1,046,841         | 2,199,316                 | 1,152,475                  |
| Rhode Island.....   | 7                        | 61                            | 47               | 55,289      | 85,147            | 212,998                   | 127,851                    |
| Washington.....   | 4                        | 53                            | 31               | 56,246      | 118,557           | 241,026                   | 122,469                    |
| Wisconsin.....  | 9                        | 151                           | 314              | 160,336     | 304,817           | 724,321                   | 419,504                    |
| All other States <sup>3</sup> .....   | 25                       | 596                           | 1,075            | 524,645     | 1,983,197         | 3,874,850                 | 1,891,653                  |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of brushes, other than rubber: 1925, \$1,770,579; corresponding amounts for earlier years not calculated. Does not include the following values of brushes made as secondary products by establishments classified in other industries: 1925, \$931,093; 1923, \$1,447,387; 1921, \$491,227; 1919, \$274,762.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Colorado, 2 establishments; Delaware, 2; Florida, 1; Georgia, 1; Indiana, 3; Iowa, 2; Maine, 2; Nebraska, 3; New Hampshire, 3; North Carolina, 1; Oregon, 2; Vermont, 2; Virginia, 1.

## COMBS AND HAIRPINS, NOT MADE FROM METAL OR RUBBER

*[Principal products: Combs and hairpins; barrettes; ornaments and novelties used in women's headdress; made of fiber, bone, horn, tortoise shell, celluloid, and ivory]*

|                                     |    |       |                  |             |             |                          |             |
|-------------------------------------|----|-------|------------------|-------------|-------------|--------------------------|-------------|
| <i>United States</i>                |    |       |                  |             |             |                          |             |
| 1925.....                           | 44 | 1,300 | 1,892            | \$1,292,923 | \$2,333,755 | <sup>1</sup> \$5,270,208 | \$2,956,453 |
| 1923.....                           | 42 | 2,144 | 1,919            | 2,266,594   | 4,583,022   | <sup>1</sup> 8,770,153   | 4,187,131   |
| 1921.....                           | 38 | 1,321 | ( <sup>2</sup> ) | 1,276,799   | 2,172,287   | <sup>1</sup> 4,580,368   | 2,408,081   |
| 1919.....                           | 45 | 2,229 | 1,588            | 1,809,453   | 3,168,818   | <sup>1</sup> 6,566,365   | 3,397,547   |
| <i>States, 1925</i>                 |    |       |                  |             |             |                          |             |
| Illinois.....                       | 4  | 78    | 35               | 92,043      | 211,779     | 425,488                  | 213,709     |
| Massachusetts.....                  | 22 | 929   | 1,632            | 855,499     | 1,106,618   | 2,855,646                | 1,749,028   |
| New York.....                       | 12 | 199   | 47               | 261,665     | 883,184     | 1,691,016                | 807,832     |
| All other States <sup>3</sup> ..... | 6  | 94    | 178              | 83,716      | 132,174     | 298,058                  | 165,884     |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of combs and hairpins, other than those made from metal or rubber: 1925, \$492,699; corresponding amounts for earlier years not calculated. Does not include the following values of combs and hairpins, other than those made from metal or rubber, made as secondary products by establishments classified in other industries: 1925, \$134,764; 1923, \$348,313. No comparable figures for 1921 and 1919.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Kentucky, 2 establishments; New Jersey, 1; Ohio, 1; Pennsylvania, 1; Rhode Island, 1.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## DAIRYMEN'S SUPPLIES; CREAMERY, CHEESE-FACTORY AND BUTTER-FACTORY EQUIPMENT; AND POULTRYMEN'S AND APIARISTS' SUPPLIES

[Principal products: This classification covers three classes of products, namely: (1) Milking machines, cream separators, and accessories; bottle sterilizers and fillers; milk testers and pasteurizers; churns, butter machines, and butter workers; and such supplies as vats, labels, molds, cheese presses and boxes, etc., as well as butter colors, rennet extract, and lactic ferment. (2) Incubators, brooders, coops, hovers, feeders, poultry fountains, feed cookers, egg testers, etc. (3) Beehives, sections, and honey boxes; comb foundation, smokers, bee veils, queen traps, etc.]

|                                     |     |       |                  |             |              |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |              |                           |              |
| 1925.....                           | 180 | 4,844 | 14,719           | \$5,863,844 | \$15,421,233 | <sup>1</sup> \$37,263,376 | \$21,842,143 |
| 1923.....                           | 192 | 5,783 | 14,308           | 6,642,711   | 17,586,864   | <sup>1</sup> 39,463,324   | 21,876,460   |
| 1921.....                           | 180 | 3,841 | ( <sup>2</sup> ) | 4,414,031   | 13,084,780   | <sup>1</sup> 27,644,471   | 14,559,691   |
| 1919.....                           | 244 | 6,437 | 11,756           | 7,078,433   | 18,526,743   | <sup>1</sup> 37,397,448   | 18,870,705   |
| <i>States, 1925</i>                 |     |       |                  |             |              |                           |              |
| California.....                     | 15  | 119   | 459              | 146,198     | 559,912      | 991,730                   | 431,818      |
| Illinois.....                       | 21  | 592   | 875              | 779,701     | 1,637,424    | 3,671,422                 | 2,033,998    |
| Indiana.....                        | 11  | 222   | 450              | 215,940     | 1,115,534    | 1,746,572                 | 630,988      |
| Iowa.....                           | 12  | 395   | 1,296            | 407,150     | 2,018,012    | 3,291,273                 | 1,273,261    |
| Kansas.....                         | 7   | 76    | 122              | 72,234      | 302,923      | 544,456                   | 241,533      |
| Michigan.....                       | 10  | 75    | 95               | 102,076     | 283,884      | 604,232                   | 320,348      |
| Minnesota.....                      | 9   | 86    | 362              | 96,248      | 234,062      | 603,202                   | 369,140      |
| Missouri.....                       | 4   | 98    | 266              | 104,906     | 282,801      | 753,379                   | 470,578      |
| Nebraska.....                       | 5   | 51    | 438              | 64,115      | 311,039      | 667,823                   | 356,784      |
| New Jersey.....                     | 4   | 225   | 378              | 312,963     | 596,710      | 1,855,304                 | 1,258,594    |
| New York.....                       | 19  | 1,277 | 4,240            | 1,570,927   | 3,039,937    | 9,457,772                 | 6,417,835    |
| Ohio.....                           | 9   | 478   | 1,549            | 636,505     | 1,688,788    | 4,771,475                 | 3,082,687    |
| Pennsylvania.....                   | 8   | 289   | 1,130            | 406,832     | 734,579      | 2,125,385                 | 1,390,806    |
| Wisconsin.....                      | 20  | 449   | 1,749            | 530,458     | 1,721,086    | 3,900,087                 | 2,179,001    |
| All other States <sup>3</sup> ..... | 26  | 412   | 1,310            | 417,591     | 894,492      | 2,276,264                 | 1,384,772    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of dairymen's, poultrymen's, and apiarists' supplies: 1925, \$1,857,024; corresponding amounts for earlier years not calculated. Does not include the following values of dairymen's, poultrymen's, and apiarists' supplies made as secondary products by establishments classified in other industries: 1925, \$5,143,534; 1923, \$5,212,647; 1921, \$726,577; 1919, \$1,273,450.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 1 establishment; Connecticut, 3; District of Columbia, 1; Georgia, 1; Louisiana, 1; Maryland, 2; Massachusetts, 1; Oklahoma, 1; Oregon, 3; Tennessee, 1; Utah, 1; Vermont, 2; Virginia, 5; Washington, 2; Wyoming, 1.

## DENTAL GOODS

[Principal products: Artificial teeth, dental golds and alloys, filling and plate material, cements, inlays, impression materials, gold crown and bridge work, rubber plate work, suction plates and cups, etc.]

|                           |     |       |                  |             |              |                           |              |
|---------------------------|-----|-------|------------------|-------------|--------------|---------------------------|--------------|
| <i>United States</i>      |     |       |                  |             |              |                           |              |
| 1925.....                 | 326 | 5,303 | 4,366            | \$6,131,699 | \$21,124,385 | <sup>1</sup> \$38,769,049 | \$17,644,664 |
| 1923.....                 | 283 | 4,608 | 3,731            | 5,080,724   | 17,160,205   | <sup>1</sup> 32,422,494   | 15,262,289   |
| 1921.....                 | 264 | 4,137 | ( <sup>2</sup> ) | 4,347,877   | 13,498,583   | <sup>1</sup> 25,811,790   | 12,313,207   |
| 1919.....                 | 319 | 5,224 | 2,708            | 4,463,840   | 16,420,429   | <sup>1</sup> 29,401,896   | 12,981,467   |
| <i>States, 1925</i>       |     |       |                  |             |              |                           |              |
| California.....           | 41  | 124   | 96               | 180,580     | 433,819      | 893,216                   | 459,397      |
| Colorado.....             | 8   | 45    | 12               | 75,573      | 107,755      | 239,486                   | 131,731      |
| District of Columbia..... | 6   | 36    | 11               | 50,920      | 46,647       | 175,050                   | 128,403      |
| Georgia.....              | 5   | 49    | 34               | 68,114      | 117,883      | 290,956                   | 173,073      |
| Illinois.....             | 22  | 285   | 145              | 449,464     | 1,926,581    | 2,958,676                 | 1,032,065    |
| Indiana.....              | 3   | 22    | 6                | 22,423      | 30,803       | 121,929                   | 91,126       |

See footnotes on next page at end of this section

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE                      | Number of establishments | Wage earners (average number) | Horse-power | Wages     | Cost of materials | Value of products | Value added by manufacture |
|-------------------------------------|--------------------------|-------------------------------|-------------|-----------|-------------------|-------------------|----------------------------|
| <b>DENTAL GOODS—Continued</b>       |                          |                               |             |           |                   |                   |                            |
| <i>States, 1925—Con.</i>            |                          |                               |             |           |                   |                   |                            |
| Kentucky.....                       | 5                        | 19                            | 6           | \$22,008  | \$34,606          | \$87,903          | \$53,297                   |
| Maine.....                          | 3                        | 12                            | 4           | 12,096    | 13,651            | 41,790            | 28,139                     |
| Maryland.....                       | 4                        | 37                            | 6           | 52,592    | 60,438            | 190,227           | 129,789                    |
| Massachusetts.....                  | 11                       | 179                           | 65          | 181,887   | 514,097           | 1,012,806         | 398,709                    |
| Minnesota.....                      | 10                       | 221                           | 82          | 282,963   | 782,651           | 1,392,664         | 610,013                    |
| Missouri.....                       | 10                       | 75                            | 35          | 130,841   | 350,660           | 809,613           | 278,953                    |
| New Jersey.....                     | 5                        | 47                            | 165         | 52,595    | 119,728           | 210,727           | 90,999                     |
| New York.....                       | 82                       | 1,259                         | 2,324       | 1,803,016 | 9,685,557         | 14,974,052        | 5,288,495                  |
| Ohio.....                           | 12                       | 306                           | 148         | 296,050   | 744,010           | 2,080,480         | 1,336,470                  |
| Pennsylvania.....                   | 50                       | 2,159                         | 882         | 1,936,729 | 3,126,041         | 8,613,016         | 5,486,975                  |
| Rhode Island.....                   | 4                        | 12                            | 4           | 14,699    | 24,094            | 56,377            | 32,343                     |
| Texas.....                          | 3                        | 16                            | 7           | 13,603    | 16,707            | 56,175            | 39,468                     |
| Wisconsin.....                      | 8                        | 59                            | 23          | 88,931    | 74,462            | 211,448           | 136,986                    |
| All other States <sup>1</sup> ..... | 34                       | 341                           | 313         | 396,915   | 2,634,255         | 4,352,458         | 1,718,203                  |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of dental goods: 1925, \$2,972,337; corresponding amounts for earlier years not calculated. Does not include the following values of dental goods made as secondary products by establishments classified in other industries: 1925, \$686,313; 1923, \$215,785; 1921, \$155,067; 1919, \$24,683.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 3 establishments; Arkansas, 2; Connecticut, 2; Delaware, 1; Florida, 1; Iowa, 2; Kansas, 2; Louisiana, 2; Michigan, 2; Nebraska, 2; North Carolina, 1; North Dakota, 1; Oklahoma, 1; Oregon, 1; South Carolina, 1; South Dakota, 1; Tennessee, 2; Utah, 2; Virginia, 2; Washington, 3.

## ENAMELING AND JAPANING

Enameling or japanning such commodities as iron and steel sheets and castings, parts of motor vehicles, bicycles, sewing machines, typewriters, and other machines; bedsteads, bathroom fixtures, stove parts, lighting fixtures; signs and emblems; jewelry; wood turnings; paper, cloth, and canvas. Establishments engaged in these operations usually perform the work under contract on goods owned by others.]

|                                     |     |       |       |             |             |                          |             |
|-------------------------------------|-----|-------|-------|-------------|-------------|--------------------------|-------------|
| <i>United States</i>                |     |       |       |             |             |                          |             |
| 1925.....                           | 95  | 1,550 | 3,775 | \$2,170,262 | \$2,249,746 | <sup>1</sup> \$6,895,603 | \$4,645,857 |
| 1923.....                           | 83  | 1,315 | 2,727 | 1,712,792   | 1,822,279   | <sup>1</sup> 5,447,968   | 3,625,689   |
| 1921.....                           | 64  | 615   | (?)   | 1,017,595   | 1,059,854   | <sup>1</sup> 2,520,149   | 1,460,265   |
| 1919.....                           | 110 | 989   | 1,484 | 1,050,948   | 1,171,457   | <sup>1</sup> 3,415,906   | 2,244,449   |
| <i>States, 1925</i>                 |     |       |       |             |             |                          |             |
| California.....                     | 10  | 51    | 100   | 62,928      | 58,220      | 197,721                  | 139,501     |
| Illinois.....                       | 16  | 410   | 993   | 606,702     | 666,753     | 1,894,885                | 1,228,132   |
| Massachusetts.....                  | 12  | 213   | 166   | 287,240     | 273,531     | 730,968                  | 457,437     |
| Michigan.....                       | 8   | 220   | 361   | 387,631     | 272,957     | 1,016,699                | 743,742     |
| Missouri.....                       | 5   | 76    | 160   | 98,832      | 55,898      | 250,320                  | 194,422     |
| New Jersey.....                     | 4   | 18    | 23    | 33,792      | 14,064      | 84,193                   | 70,129      |
| New York.....                       | 11  | 106   | 251   | 129,663     | 185,343     | 488,170                  | 302,827     |
| Ohio.....                           | 10  | 145   | 633   | 239,715     | 325,471     | 1,064,083                | 738,612     |
| Pennsylvania.....                   | 8   | 103   | 633   | 133,747     | 195,993     | 549,042                  | 353,049     |
| Rhode Island.....                   | 7   | 66    | 74    | 64,335      | 12,092      | 114,731                  | 102,639     |
| All other States <sup>1</sup> ..... | 4   | 142   | 381   | 125,677     | 139,424     | 504,791                  | 315,367     |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in enameling and japanning: 1925, \$38,583; corresponding amounts for earlier years not calculated. Does not include the following values of enameling and japanning done by establishments classified in other industries: 1925, \$2,812,071; 1923, \$458,522; 1921, \$81,170; 1919, \$51,723.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Indiana, 1 establishment; Iowa, 1; Minnesota, 1; Tennessee, 1.



## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## FANCY AND MISCELLANEOUS ARTICLES, NOT ELSEWHERE CLASSIFIED

[Principal products: A great variety of articles which, in a general way, may be classed as beadwork; celluloid, metal, paper, and wood novelties; lamp shades, other than porcelain or glass; and other fancy articles which can not be specifically classified in any other industry]

|                                     |     |         |        |                |                |                             |                |
|-------------------------------------|-----|---------|--------|----------------|----------------|-----------------------------|----------------|
| <i>United States</i>                |     |         |        |                |                |                             |                |
| 1925.....                           | 532 | 14, 552 | 9, 071 | \$14, 959, 902 | \$29, 154, 685 | <sup>1</sup> \$69, 769, 149 | \$40, 614, 464 |
| 1923.....                           | 542 | 13, 522 | 8, 098 | 13, 713, 306   | 28, 531, 483   | <sup>1</sup> 63, 208, 279   | 34, 676, 796   |
| 1921.....                           | 509 | 11, 534 | (?)    | 11, 088, 590   | 24, 384, 091   | <sup>1</sup> 51, 406, 493   | 27, 022, 402   |
| 1919.....                           | 661 | 13, 961 | 8, 657 | 12, 207, 913   | 32, 591, 073   | <sup>1</sup> 64, 054, 481   | 31, 463, 408   |
| <i>States, 1925</i>                 |     |         |        |                |                |                             |                |
| California.....                     | 32  | 501     | 247    | 459, 342       | 1, 137, 999    | 2, 332, 121                 | 1, 194, 122    |
| Connecticut.....                    | 11  | 180     | 249    | 180, 344       | 339, 021       | 801, 588                    | 462, 567       |
| Illinois.....                       | 77  | 2, 003  | 744    | 2, 167, 229    | 4, 272, 650    | 10, 740, 623                | 6, 467, 973    |
| Indiana.....                        | 6   | 71      | 333    | 70, 114        | 85, 050        | 239, 362                    | 154, 312       |
| Massachusetts.....                  | 34  | 1, 218  | 1, 222 | 1, 249, 584    | 2, 136, 490    | 4, 924, 319                 | 2, 787, 829    |
| Michigan.....                       | 8   | 211     | 154    | 209, 616       | 308, 240       | 787, 442                    | 479, 202       |
| New Jersey.....                     | 40  | 1, 752  | 1, 324 | 1, 658, 190    | 2, 162, 110    | 5, 944, 561                 | 3, 782, 451    |
| New York.....                       | 232 | 5, 074  | 2, 527 | 5, 766, 718    | 13, 031, 286   | 27, 604, 608                | 14, 573, 322   |
| Oregon.....                         | 3   | 6       | 123    | 8, 733         | 12, 906        | 33, 868                     | 20, 962        |
| Pennsylvania.....                   | 35  | 723     | 491    | 534, 207       | 1, 205, 745    | 2, 763, 284                 | 1, 557, 539    |
| Rhode Island.....                   | 14  | 902     | 302    | 781, 614       | 930, 275       | 2, 381, 857                 | 1, 451, 582    |
| Washington.....                     | 3   | 28      | 26     | 14, 591        | 24, 341        | 75, 532                     | 51, 191        |
| Wisconsin.....                      | 4   | 322     | 265    | 326, 076       | 540, 670       | 1, 607, 927                 | 1, 097, 257    |
| All other States <sup>2</sup> ..... | 33  | 1, 561  | 1, 034 | 1, 533, 544    | 2, 967, 902    | 9, 532, 057                 | 6, 564, 155    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of fancy and miscellaneous articles, not elsewhere classified: 1925, \$5,561,767; corresponding amounts for earlier years not calculated. Does not include the following values of fancy and miscellaneous articles, not elsewhere classified, made as secondary products by establishments classified in other industries: 1925, \$8,477,203; 1923, \$6,980,310; 1921, \$6,240,447; 1919, \$5,755,665.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Colorado, 1 establishment; District of Columbia, 1; Iowa, 2; Kansas, 1; Maine, 2; Maryland, 4; Minnesota, 3; Missouri, 4; New Hampshire, 2; North Carolina, 1; Ohio, 10; Tennessee, 2.

## FEATHERS, PLUMES, AND MANUFACTURES THEREOF

[The preparation of fancy feathers, plumes, quills, and articles made principally from feathers and plumes, for the trade, including the dyeing, curling, and renovating of ostrich and other feathers]

|                                     |     |        |     |             |               |                            |               |
|-------------------------------------|-----|--------|-----|-------------|---------------|----------------------------|---------------|
| <i>United States</i>                |     |        |     |             |               |                            |               |
| 1925.....                           | 70  | 888    | 334 | \$676, 394  | \$1, 880, 708 | <sup>1</sup> \$4, 179, 063 | \$2, 298, 355 |
| 1923.....                           | 131 | 1, 712 | 410 | 1, 968, 327 | 3, 399, 735   | <sup>1</sup> 7, 866, 492   | 4, 466, 757   |
| 1921.....                           | 135 | 2, 064 | (?) | 2, 145, 013 | 4, 283, 325   | <sup>1</sup> 8, 886, 540   | 4, 888, 215   |
| 1919.....                           | 216 | 3, 504 | 502 | 3, 465, 765 | 6, 694, 596   | <sup>1</sup> 15, 377, 953  | 8, 683, 357   |
| <i>States, 1925</i>                 |     |        |     |             |               |                            |               |
| Illinois.....                       | 3   | 19     | 25  | 22, 469     | 264, 521      | 372, 444                   | 107, 923      |
| New York.....                       | 62  | 754    | 300 | 876, 469    | 1, 516, 887   | 3, 487, 910                | 1, 971, 023   |
| All other States <sup>1</sup> ..... | 5   | 115    | 9   | 77, 456     | 99, 300       | 318, 709                   | 219, 409      |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the preparation of feathers, plumes, and manufactures thereof: 1925, \$139,138; corresponding amounts for earlier years not calculated. Does not include the following values of feathers, plumes, and manufactures thereof, reported by establishments engaged primarily in other industries: 1925, \$279,515; 1923, \$652,194; 1921, \$661,713; 1919, \$986,246.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 2 establishments; Missouri, 1; Pennsylvania, 2.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## FOUNDRY SUPPLIES

[Principal products: Foundry facings, molding sand, cement for castings, core oils and compounds, chaplets, wax, flux, "parting" composition, flasks, sieves, pipe blacking, and plumbago. Facings and supplies made by foundries for their own use are not, as a rule, reported separately]

|                                     |    |       |                  |             |             |                           |             |
|-------------------------------------|----|-------|------------------|-------------|-------------|---------------------------|-------------|
| <i>United States</i>                |    |       |                  |             |             |                           |             |
| 1925.....                           | 66 | 1,087 | 10,733           | \$1,360,219 | \$6,903,678 | <sup>1</sup> \$12,723,120 | \$5,819,442 |
| 1923.....                           | 64 | 966   | 7,736            | 1,162,068   | 4,822,611   | <sup>1</sup> 10,247,864   | 5,425,253   |
| 1921.....                           | 50 | 567   | ( <sup>2</sup> ) | 676,241     | 2,775,014   | <sup>1</sup> 4,965,678    | 2,190,664   |
| 1919.....                           | 76 | 906   | 6,327            | 1,032,029   | 5,667,236   | <sup>1</sup> 9,954,676    | 4,287,440   |
| <i>States, 1925</i>                 |    |       |                  |             |             |                           |             |
| Illinois.....                       | 9  | 134   | 804              | 187,200     | 758,823     | 1,744,076                 | 985,253     |
| Michigan.....                       | 3  | 103   | 212              | 133,547     | 860,537     | 1,310,946                 | 450,409     |
| New York.....                       | 6  | 57    | 150              | 69,931      | 157,741     | 380,511                   | 222,770     |
| Ohio.....                           | 19 | 289   | 4,133            | 391,119     | 2,082,674   | 3,814,208                 | 1,731,534   |
| Pennsylvania.....                   | 20 | 416   | 3,218            | 476,320     | 2,685,635   | 4,501,208                 | 1,815,573   |
| All other States <sup>3</sup> ..... | 9  | 88    | 2,216            | 102,102     | 358,268     | 972,171                   | 613,903     |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of foundry supplies: 1925, \$1,375,466; corresponding amounts for earlier years not calculated. Does not include the following value of foundry supplies made as secondary products by establishments classified in other industries: 1925, \$1,080,801; 1923, \$1,501,894; 1921, \$541,145; 1919, \$209,580.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 3 establishments; Connecticut, 2; Indiana, 1; Massachusetts, 1; Missouri, 1; Virginia, 1.

## FUEL, MANUFACTURED

[Principal products: Briquettes made from anthracite culm, asphaltum, starch, coal-tar pitch, bituminous coal or slack, charcoal, oil, and other substances]

|                                   |                 |     |                  |           |             |                          |             |
|-----------------------------------|-----------------|-----|------------------|-----------|-------------|--------------------------|-------------|
| <i>United States</i> <sup>1</sup> |                 |     |                  |           |             |                          |             |
| 1925.....                         | <sup>2</sup> 14 | 246 | 6,573            | \$369,280 | \$3,935,503 | <sup>3</sup> \$6,019,310 | \$2,083,807 |
| 1923.....                         | 15              | 364 | 7,623            | 510,604   | 3,907,197   | <sup>3</sup> 5,584,070   | 1,676,873   |
| 1921.....                         | 14              | 371 | ( <sup>4</sup> ) | 484,423   | 2,280,374   | <sup>3</sup> 3,177,742   | 897,368     |
| 1919.....                         | 11              | 171 | 5,180            | 221,545   | 1,386,394   | <sup>3</sup> 1,973,877   | 587,483     |

<sup>1</sup> Statistics for States can not be given without disclosing operations of individual establishments.

<sup>2</sup> Alabama, 1 establishment; California, 2; Maryland, 1; Missouri, 1; New Jersey, 1; Pennsylvania, 3; Virginia, 2; Washington, 1; Wisconsin, 2.

<sup>3</sup> Does not include the following values of manufactured fuel made as secondary products by establishments engaged primarily in other industries: 1925, \$768,753; 1921, \$80,148; 1919, \$384,779. No comparable data for 1923.

<sup>4</sup> Not called for on schedule.

## FUR GOODS

[See Tables 34 and 35, pp. 354 and 355]

[Principal products: Fur pieces; fur and fur-lined coats and overcoats; fur hats, caps, gloves, mittens, and robes. The furs used as materials are in some cases purchased dressed and in other cases are tanned and dressed by the establishments manufacturing the fur goods. Thus some overlapping occurs between the "Fur goods" and "Furs, dressed," industries]

|                           |       |        |                  |              |               |                            |              |
|---------------------------|-------|--------|------------------|--------------|---------------|----------------------------|--------------|
| <i>United States</i>      |       |        |                  |              |               |                            |              |
| 1925.....                 | 2,000 | 16,556 | 4,985            | \$35,164,292 | \$159,315,693 | <sup>1</sup> \$254,265,708 | \$94,950,015 |
| 1923.....                 | 1,758 | 14,439 | 4,299            | 27,923,042   | 126,162,143   | <sup>1</sup> 198,042,571   | 71,880,428   |
| 1921.....                 | 1,707 | 12,052 | ( <sup>2</sup> ) | 22,421,193   | 84,536,855    | <sup>1</sup> 139,365,929   | 54,829,074   |
| 1919.....                 | 1,815 | 13,639 | 5,327            | 24,149,212   | 105,596,605   | <sup>1</sup> 173,137,739   | 67,541,134   |
| <i>States, 1925</i>       |       |        |                  |              |               |                            |              |
| California.....           | 44    | 314    | 67               | 549,967      | 1,615,883     | 3,005,120                  | 1,389,237    |
| Colorado.....             | 7     | 32     | 9                | 43,200       | 34,877        | 128,361                    | 93,484       |
| Connecticut.....          | 10    | 68     | 19               | 85,763       | 384,577       | 569,522                    | 184,945      |
| District of Columbia..... | 13    | 79     | 20               | 162,923      | 413,275       | 936,810                    | 523,535      |
| Illinois.....             | 143   | 715    | 241              | 1,639,085    | 6,598,744     | 10,996,961                 | 4,398,217    |

See footnotes on next page at end of this section.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

(See note at head of this table, p. 1170)

| YEAR AND STATE                      | Number of establishments | Wage earners (average number) | Horse-power | Wages      | Cost of materials | Value of products | Value added by manufacture |
|-------------------------------------|--------------------------|-------------------------------|-------------|------------|-------------------|-------------------|----------------------------|
| <b>FUR GOODS—Continued</b>          |                          |                               |             |            |                   |                   |                            |
| <i>States, 1925—Con.</i>            |                          |                               |             |            |                   |                   |                            |
| Indiana.....                        | 8                        | 78                            | 16          | \$103,645  | \$220,964         | \$471,549         | \$250,585                  |
| Iowa.....                           | 24                       | 188                           | 147         | 248,339    | 510,987           | 1,316,105         | 805,118                    |
| Maine.....                          | 8                        | 119                           | 29          | 145,456    | 509,839           | 952,885           | 443,046                    |
| Maryland.....                       | 18                       | 68                            | 18          | 116,494    | 246,061           | 544,210           | 298,149                    |
| Massachusetts.....                  | 36                       | 677                           | 180         | 1,017,083  | 3,217,645         | 5,658,390         | 2,420,745                  |
| Michigan.....                       | 30                       | 367                           | 96          | 521,274    | 1,436,417         | 3,095,981         | 1,659,564                  |
| Minnesota.....                      | 40                       | 1,231                         | 676         | 1,577,186  | 6,207,901         | 9,342,504         | 3,134,603                  |
| Missouri.....                       | 13                       | 176                           | 57          | 250,052    | 740,777           | 1,453,633         | 712,536                    |
| Montana.....                        | 4                        | 17                            | 5           | 16,248     | 26,572            | 87,300            | 60,788                     |
| Nebraska.....                       | 5                        | 48                            | 21          | 67,915     | 179,654           | 351,200           | 171,546                    |
| New Jersey.....                     | 21                       | 229                           | 74          | 388,595    | 1,573,272         | 2,494,956         | 921,684                    |
| New York.....                       | 1,353                    | 10,343                        | 2,755       | 25,677,794 | 126,580,565       | 197,437,970       | 70,857,405                 |
| North Dakota.....                   | 3                        | 16                            | 4           | 19,194     | 34,118            | 78,554            | 44,436                     |
| Ohio.....                           | 28                       | 148                           | 47          | 248,242    | 617,977           | 1,317,872         | 699,895                    |
| Oregon.....                         | 7                        | 35                            | 11          | 45,926     | 81,228            | 233,354           | 132,126                    |
| Pennsylvania.....                   | 101                      | 400                           | 120         | 777,954    | 3,300,099         | 5,503,548         | 2,208,449                  |
| Rhode Island.....                   | 3                        | 23                            | 3           | 34,844     | 54,245            | 134,138           | 79,893                     |
| Vermont.....                        | 5                        | 21                            | 6           | 19,386     | 29,231            | 79,830            | 50,619                     |
| Washington.....                     | 26                       | 130                           | 42          | 168,627    | 347,306           | 785,913           | 438,607                    |
| Wisconsin.....                      | 34                       | 961                           | 300         | 1,145,431  | 4,175,031         | 6,889,986         | 2,714,355                  |
| All other States <sup>1</sup> ..... | 16                       | 73                            | 22          | 93,669     | 177,848           | 418,976           | 241,128                    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of fur goods: 1925, \$1,579,232; corresponding amounts for earlier years not calculated. Does not include the following values of fur goods made as secondary products by establishments classified in other industries: 1925, \$1,424,405; 1923, \$210,446; 1921, \$2,221,423; 1919, \$2,421,327.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 1 establishment; Arkansas, 1; Delaware, 1; Georgia, 1; Idaho, 1; Kansas, 1; Kentucky, 1; Louisiana, 2; Oklahoma, 2; South Dakota, 1; Tennessee, 1; Texas, 1; Utah, 1; West Virginia, 1.

**FURS, DRESSED**

[Scraping, currying, tanning, bleaching, and dyeing pelts. In many cases the work is done for others on a contract basis]

|                                     |     |       |                  |             |             |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|-------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |             |                           |              |
| 1925.....                           | 133 | 5,056 | 9,858            | \$8,205,892 | \$7,296,408 | <sup>1</sup> \$25,422,663 | \$18,126,255 |
| 1923.....                           | 162 | 5,203 | 7,776            | 8,381,453   | 7,241,783   | <sup>1</sup> 25,466,841   | 18,225,058   |
| 1921.....                           | 126 | 4,429 | ( <sup>2</sup> ) | 6,758,712   | 6,070,474   | <sup>1</sup> 19,157,339   | 13,086,865   |
| 1919.....                           | 141 | 5,075 | 5,421            | 7,098,286   | 6,338,835   | <sup>1</sup> 20,384,569   | 14,045,734   |
| <i>States, 1925</i>                 |     |       |                  |             |             |                           |              |
| Illinois.....                       | 8   | 139   | 334              | 181,296     | 498,516     | 1,044,183                 | 545,667      |
| Minnesota.....                      | 5   | 60    | 222              | 87,513      | 50,402      | 189,784                   | 139,382      |
| New Jersey.....                     | 25  | 1,539 | 2,868            | 2,321,799   | 1,263,598   | 6,630,640                 | 5,367,042    |
| New York.....                       | 69  | 2,629 | 4,193            | 4,670,205   | 2,747,182   | 12,593,855                | 9,846,677    |
| Pennsylvania.....                   | 4   | 48    | 121              | 49,537      | 149,182     | 234,073                   | 84,891       |
| All other States <sup>3</sup> ..... | 22  | 641   | 2,120            | 895,542     | 2,587,528   | 4,730,128                 | 2,142,600    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the dressing of furs: 1925, \$46,529; corresponding amounts for earlier years not calculated. Does not include the following values of dressed furs reported by establishments engaged primarily in other industries: 1925, \$369,813; 1921, \$29,500; 1919, \$1,207,049. No comparable data for 1923.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 1 establishment; Colorado, 2; Connecticut, 1; Delaware, 1; Indiana, 1; Iowa, 2; Kentucky, 1; Massachusetts, 1; Michigan, 3; Missouri, 1; Ohio, 3; Texas, 1; Washington, 2; Wisconsin, 2.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE  | Number of establishments | Wage earners (average number) | Horse-power      | Wages       | Cost of materials | Value of products | Value added by manufacture |
|---|--------------------------|-------------------------------|------------------|-------------|-------------------|-------------------|----------------------------|
| <b>HAIR WORK</b>  |                          |                               |                  |             |                   |                   |                            |
| <i>[Principal products: Ornamental hair work, hair nets, curls, theatrical and other wigs, toupees, switches, braids, and other products from human hair and from mohair and other animal hair]</i> |                          |                               |                  |             |                   |                   |                            |
| <i>United States</i>  |                          |                               |                  |             |                   |                   |                            |
| 1925.....   | 85                       | 864                           | 13               | \$974, 982  | \$3, 046, 276     | 1 \$6, 089, 756   | \$3, 043, 480              |
| 1923.....   | 113                      | 1, 317                        | 17               | 1, 352, 406 | 5, 568, 007       | 1 11, 263, 953    | 5, 693, 946                |
| 1921.....   | 128                      | 1, 222                        | ( <sup>2</sup> ) | 1, 256, 198 | 6, 734, 188       | 1 10, 951, 844    | 4, 217, 056                |
| 1919.....   | 198                      | 1, 084                        | 119              | 1, 064, 630 | 3, 829, 197       | 1 6, 963, 033     | 3, 133, 836                |
| <i>States, 1925</i>   |                          |                               |                  |             |                   |                   |                            |
| California.....   | 5                        | 34                            | 2                | 43, 728     | 30, 155           | 115, 429          | 55, 274                    |
| Illinois.....   | 8                        | 96                            | 1                | 93, 101     | 444, 378          | 809, 446          | 365, 008                   |
| Massachusetts.....  | 5                        | 39                            | -----            | 43, 961     | 50, 201           | 141, 305          | 91, 014                    |
| New York.....   | 45                       | 553                           | 6                | 664, 381    | 2, 450, 336       | 4, 644, 751       | 2, 194, 415                |
| Ohio.....   | 3                        | 32                            | -----            | 34, 478     | 10, 904           | 88, 511           | 77, 607                    |
| Pennsylvania.....   | 7                        | 43                            | 3                | 38, 073     | 22, 129           | 122, 870          | 100, 741                   |
| All other States <sup>1</sup> .....   | 12                       | 67                            | 1                | 57, 260     | 38, 083           | 167, 444          | 129, 301                   |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in hair work: 1925, \$29,989; corresponding amounts for earlier years not calculated. Does not include the following values of hair work reported by establishments engaged primarily in other industries: 1925, \$268,006; 1923, \$41,822; 1921, \$86,766; 1919, \$91,762.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Kentucky, 1 establishment; Maine, 1; Missouri, 2; Nebraska, 1; New Jersey, 1; Oregon, 1; Rhode Island 1; Washington, 2; Wisconsin, 2.

**HAND STAMPS AND STENCILS AND BRANDS**

*[Principal products: Rubber and metal stamps, such as date and time stamps, stamps for marking textiles, wall paper, etc., and steel shoe stamps; dies, seals, and seal presses; door and name plates; metal badges; check protectors; addressing-machine plates and stencils; branding irons for marking cases, boxes, and articles of merchandise. Prior to 1923 the manufacture of hand stamps and that of stencils and brands were treated as separate industries.]*

|                                     |     |        |                  |               |               |                  |                |
|-------------------------------------|-----|--------|------------------|---------------|---------------|------------------|----------------|
| <i>United States</i>                |     |        |                  |               |               |                  |                |
| 1925.....                           | 323 | 2, 930 | 3, 658           | \$4, 015, 323 | \$4, 070, 322 | 1 \$15, 320, 554 | \$11, 250, 232 |
| 1923.....                           | 255 | 2, 312 | 2, 571           | 3, 034, 974   | 3, 103, 320   | 1 11, 150, 936   | 8, 027, 016    |
| 1921.....                           | 234 | 2, 068 | ( <sup>2</sup> ) | 2, 657, 418   | 2, 785, 615   | 1 9, 079, 097    | 6, 203, 452    |
| 1919.....                           | 382 | 2, 136 | 1, 848           | 2, 261, 287   | 3, 148, 697   | 1 9, 336, 558    | 6, 187, 891    |
| <i>States, 1925</i>                 |     |        |                  |               |               |                  |                |
| California.....                     | 27  | 244    | 371              | 297, 507      | 246, 495      | 1, 112, 324      | \$65, 829      |
| Connecticut.....                    | 11  | 57     | 66               | 83, 442       | 43, 773       | 227, 627         | 183, 854       |
| District of Columbia.....           | 3   | 19     | 13               | 36, 941       | 38, 808       | 117, 851         | 78, 983        |
| Georgia.....                        | 6   | 28     | 18               | 31, 749       | 48, 072       | 139, 338         | 91, 266        |
| Illinois.....                       | 33  | 406    | 508              | 650, 836      | 731, 041      | 2, 693, 544      | 1, 902, 503    |
| Iowa.....                           | 4   | 7      | 10               | 9, 202        | 25, 948       | 36, 521          | 31, 091        |
| Louisiana.....                      | 4   | 22     | 12               | 28, 753       | 25, 948       | 109, 978         | 84, 690        |
| Massachusetts.....                  | 26  | 125    | 102              | 164, 752      | 181, 369      | 642, 144         | 400, 775       |
| Michigan.....                       | 16  | 138    | 142              | 104, 921      | 214, 876      | 755, 895         | 541, 019       |
| Minnesota.....                      | 8   | 47     | 47               | 57, 694       | 53, 124       | 223, 720         | 170, 556       |
| Missouri.....                       | 11  | 69     | 83               | 89, 000       | 87, 806       | 342, 147         | 254, 341       |
| New Jersey.....                     | 11  | 83     | 53               | 121, 636      | 164, 864      | 588, 824         | 423, 000       |
| New York.....                       | 67  | 889    | 636              | 1, 149, 732   | 1, 061, 190   | 4, 004, 880      | 2, 943, 600    |
| Ohio.....                           | 22  | 113    | 177              | 174, 677      | 199, 693      | 734, 472         | 534, 779       |
| Pennsylvania.....                   | 22  | 333    | 1, 024           | 469, 817      | 419, 112      | 1, 754, 206      | 1, 385, 094    |
| Rhode Island.....                   | 4   | 18     | 15               | 22, 622       | 30, 973       | 117, 164         | 85, 191        |
| Tennessee.....                      | 4   | 21     | 34               | 17, 610       | 28, 608       | 74, 372          | 45, 764        |
| Texas.....                          | 5   | 20     | 8                | 18, 689       | 33, 622       | 127, 174         | 93, 252        |
| Washington.....                     | 8   | 30     | 46               | 43, 717       | 35, 828       | 180, 630         | 154, 802       |
| All other States <sup>1</sup> ..... | 31  | 261    | 293              | 351, 166      | 429, 330      | 1, 337, 743      | 908, 413       |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of hand stamps and stencils and brands: 1925, \$837,929; corresponding amounts for earlier years not calculated. Does not include the following values of hand stamps and stencils and brands made as secondary products by establishments classified in other industries: 1925, \$515,450; 1923, \$305,298; 1921, \$834,351; 1919, \$425,051.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Arkansas, 1 establishment; Colorado, 3; Florida, 1; Indiana, 3; Kansas, 2; Kentucky, 2; Maine, 1; Maryland, 4; Nebraska, 2; Oklahoma, 3; Oregon, 3; Utah, 1; Virginia, 3; Wisconsin, 2.

SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

HATS, STRAW

[See Tables 40 and 41, pp. 358 and 359]

[The manufacture of men's, women's, and children's straw hats, and the bleaching and finishing of Panama and other straw hats]

|                                     |     |       |                  |             |              |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |              |                           |              |
| 1925.....                           | 83  | 5,920 | 3,541            | \$5,823,133 | \$15,177,994 | <sup>1</sup> \$28,153,899 | \$12,975,905 |
| 1923.....                           | 97  | 6,812 | 3,673            | 7,522,803   | 16,340,868   | <sup>1</sup> 32,569,263   | 16,228,395   |
| 1921.....                           | 110 | 5,924 | ( <sup>2</sup> ) | 6,415,205   | 14,559,485   | <sup>1</sup> 28,616,604   | 14,057,119   |
| 1919.....                           | 148 | 7,302 | 3,382            | 6,604,933   | 16,910,408   | <sup>1</sup> 32,187,361   | 15,276,933   |
| <i>States, 1925</i>                 |     |       |                  |             |              |                           |              |
| Maryland.....                       | 5   | 1,332 | 928              | 1,163,409   | 2,474,043    | 4,986,773                 | 2,512,730    |
| Massachusetts.....                  | 12  | 1,343 | 1,108            | 1,217,035   | 2,112,822    | 4,429,431                 | 2,316,609    |
| Missouri.....                       | 9   | 376   | 83               | 421,022     | 1,373,886    | 3,099,477                 | 1,725,591    |
| New Jersey.....                     | 3   | 156   | 379              | 174,239     | 370,668      | 615,896                   | 245,228      |
| New York.....                       | 35  | 1,780 | 786              | 2,054,244   | 6,606,036    | 11,270,479                | 4,664,443    |
| Pennsylvania.....                   | 5   | 134   | 31               | 146,718     | 288,091      | 576,089                   | 287,998      |
| All other States <sup>3</sup> ..... | 14  | 799   | 226              | 646,466     | 1,952,448    | 3,175,754                 | 1,223,306    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of straw hats: 1925, \$759,450; corresponding amounts for earlier years not calculated. Does not include the following values of straw hats made as secondary products by establishments classified in other industries: 1925, \$3,033,646; 1923, \$2,437,786; 1921, \$2,696,634; 1919, \$1,590,160.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 1 establishment; Georgia, 3; Illinois, 2; Indiana, 1; Ohio, 4; Texas, 2; Virginia, 1.

INSTRUMENTS, PROFESSIONAL AND SCIENTIFIC

[Principal products: Surgical, dental, orthopedic, and veterinary instruments; physicians' diagnostic apparatus; nautical instruments; auriphones and other aids to hearing; precision and measuring instruments; indicating and recording instruments; hypodermic syringes and needles; gauge dials; speedometers, barometers, thermometers, compasses; dental mirrors; dental-engine equipment, etc.]

|                                     |     |        |                  |              |              |                           |              |
|-------------------------------------|-----|--------|------------------|--------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |        |                  |              |              |                           |              |
| 1925.....                           | 233 | 12,129 | 17,595           | \$16,166,202 | \$20,428,088 | <sup>1</sup> \$76,338,739 | \$55,910,651 |
| 1923.....                           | 258 | 12,275 | 16,203           | 15,502,679   | 18,039,523   | <sup>1</sup> 63,074,391   | 45,034,868   |
| 1921.....                           | 266 | 9,354  | ( <sup>2</sup> ) | 11,699,950   | 13,326,311   | <sup>1</sup> 42,131,845   | 28,805,534   |
| 1919.....                           | 351 | 15,931 | 12,981           | 17,499,888   | 19,494,634   | <sup>1</sup> 58,136,691   | 38,642,057   |
| <i>States, 1925</i>                 |     |        |                  |              |              |                           |              |
| California.....                     | 6   | 55     | 188              | 94,006       | 110,595      | 282,098                   | 171,503      |
| Illinois.....                       | 37  | 3,428  | 5,709            | 4,681,701    | 8,222,591    | 27,499,820                | 19,277,229   |
| Massachusetts.....                  | 21  | 425    | 431              | 575,910      | 603,389      | 2,589,600                 | 1,986,211    |
| New Jersey.....                     | 9   | 94     | 196              | 121,378      | 117,352      | 600,605                   | 483,073      |
| New York.....                       | 73  | 2,946  | 5,557            | 4,234,748    | 4,640,014    | 20,806,846                | 16,166,832   |
| Ohio.....                           | 12  | 356    | 398              | 423,661      | 321,780      | 1,292,148                 | 970,368      |
| Pennsylvania.....                   | 38  | 1,627  | 1,281            | 2,168,174    | 2,667,015    | 8,212,269                 | 5,545,254    |
| Washington.....                     | 4   | 10     | 17               | 16,577       | 9,185        | 65,181                    | 55,996       |
| All other States <sup>3</sup> ..... | 33  | 3,153  | 3,818            | 3,850,047    | 3,735,987    | 14,990,172                | 11,254,185   |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged in the manufacture of professional and scientific instruments: 1925, \$8,909,319; corresponding amounts for earlier years not calculated. Does not include the following values of professional and scientific instruments made as secondary products by establishments classified in other industries: 1925, \$16,497,243; 1923, \$4,506,882; 1921, \$3,085,095; 1919, \$5,328,257.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Colorado, 1 establishment; Connecticut, 2; District of Columbia, 2; Indiana, 2; Iowa, 1; Kansas, 1; Maryland, 3; Michigan, 7; Minnesota, 2; Missouri, 4; Rhode Island, 3; Tennessee, 1; Wisconsin, 2.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power      | Wages      | Cost of materials | Value of products          | Value added by manufacture |
|--|--------------------------|-------------------------------|------------------|------------|-------------------|----------------------------|----------------------------|
| <b>IVORY, SHELL, AND BONE WORK, NOT INCLUDING BUTTONS, COMBS, OR HAIRPINS</b>  |                          |                               |                  |            |                   |                            |                            |
| <i>[Principal products: Articles made of ivory, shell, mother-of-pearl, horn, or bone, not elsewhere classified, such as mosaics, cutlery and toilet-article handles, fobs, buckles, fittings for jewelers' use, cane and umbrella handles, and inlay for musical instruments]</i> |                          |                               |                  |            |                   |                            |                            |
| <i>United States</i>   |                          |                               |                  |            |                   |                            |                            |
| 1925-----  | 29                       | 488                           | 892              | \$554, 972 | \$727, 505        | <sup>1</sup> \$1, 879, 469 | \$1, 151, 964              |
| 1923-----  | 30                       | 603                           | 880              | 662, 958   | 1, 120, 833       | <sup>1</sup> 2, 441, 127   | 1, 320, 294                |
| 1921-----  | 39                       | 674                           | ( <sup>2</sup> ) | 689, 818   | 1, 143, 711       | <sup>1</sup> 2, 395, 375   | 1, 251, 664                |
| 1919-----  | 44                       | 842                           | 879              | 734, 932   | 1, 293, 876       | <sup>1</sup> 2, 816, 530   | 1, 522, 654                |
| <i>States, 1925</i>  |                          |                               |                  |            |                   |                            |                            |
| California-----  | 4                        | 71                            | 111              | 65, 204    | 105, 817          | 292, 972                   | 187, 155                   |
| Massachusetts-----   | 4                        | 79                            | 159              | 84, 886    | 105, 812          | 258, 229                   | 149, 417                   |
| New York-----  | 8                        | 42                            | 88               | 52, 782    | 61, 381           | 159, 677                   | 98, 296                    |
| Rhode Island-----  | 3                        | 12                            | 10               | 13, 870    | 12, 126           | 33, 453                    | 21, 307                    |
| All other States <sup>3</sup> -----  | 10                       | 284                           | 524              | 338, 730   | 430, 369          | 1, 135, 158                | 695, 759                   |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in this industry: 1925, \$179,894; corresponding amounts for earlier years not calculated. Does not include the following values of ivory, shell, and bone products made as secondary products by establishments classified in other industries: 1925, \$426,266; 1923, \$461,660; 1921, \$218,001; 1919, \$92,722.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Connecticut, 1 establishment; Illinois, 2; Iowa, 1; New Jersey, 3; Pennsylvania, 1; Washington, 2. Connecticut and New Jersey each reported a larger value of products than any of the States for which figures are shown.

## JEWELRY AND INSTRUMENT CASES

*[Principal products: Cases, trays, and fancy boxes for jewelry, instruments, cutlery, eyeglasses, combs, compasses, pipes, toilet sets, etc.]*

|                                     |     |        |                  |               |               |                             |               |
|-------------------------------------|-----|--------|------------------|---------------|---------------|-----------------------------|---------------|
| <i>United States</i>                |     |        |                  |               |               |                             |               |
| 1925-----                           | 125 | 2, 748 | 2, 460           | \$2, 750, 209 | \$3, 832, 577 | <sup>1</sup> \$10, 114, 073 | \$6, 281, 406 |
| 1923-----                           | 111 | 2, 977 | 1, 662           | 2, 904, 430   | 4, 417, 256   | <sup>1</sup> 10, 506, 478   | 6, 089, 222   |
| 1921-----                           | 107 | 2, 241 | ( <sup>2</sup> ) | 2, 087, 591   | 2, 712, 684   | <sup>1</sup> 7, 035, 778    | 4, 323, 094   |
| 1919-----                           | 142 | 2, 734 | 1, 075           | 2, 147, 648   | 3, 505, 840   | <sup>1</sup> 8, 126, 300    | 4, 620, 460   |
| <i>States, 1925</i>                 |     |        |                  |               |               |                             |               |
| California-----                     | 5   | 30     | 38               | 36, 722       | 20, 637       | 132, 216                    | 102, 579      |
| Illinois-----                       | 8   | 252    | 138              | 276, 644      | 404, 345      | 939, 216                    | 534, 871      |
| Massachusetts-----                  | 12  | 504    | 345              | 448, 188      | 736, 074      | 1, 967, 555                 | 1, 231, 481   |
| New Jersey-----                     | 12  | 197    | 366              | 240, 321      | 342, 893      | 780, 856                    | 437, 963      |
| New York-----                       | 59  | 921    | 711              | 996, 942      | 1, 270, 233   | 3, 673, 375                 | 2, 394, 142   |
| Pennsylvania-----                   | 8   | 98     | 41               | 88, 501       | 103, 033      | 315, 007                    | 211, 974      |
| Rhode Island-----                   | 10  | 368    | 216              | 307, 737      | 300, 701      | 968, 435                    | 667, 737      |
| All other States <sup>3</sup> ----- | 11  | 378    | 605              | 355, 154      | 636, 661      | 1, 337, 410                 | 700, 749      |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of jewelry and instrument cases: 1925, \$373,393; corresponding amounts for earlier years not calculated. Does not include the following values of jewelry and instrument cases made as secondary products by establishments classified in other industries: 1925, \$1,368,189; 1923, \$628,908; 1921, \$420,521; 1919, \$726,394.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Connecticut, 2 establishments; Indiana, 2; Kentucky, 1; Maryland, 2; Missouri, 2; Ohio, 1; Wisconsin, 1.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## LAPIDARY WORK

[The cutting, recutting, polishing, and setting of diamonds and other precious and semiprecious stones, and the drilling of pearls; the preparation of jewels for watches and chronometers and for surveyors' instruments; and the preparation of real and imitation stones for emblems. This work is done to a large extent on contract on materials furnished by others. Some jewelry manufacturers cut stones for their own use, but do not report the value of such work separately; consequently some overlapping occurs between the "Jewelry" and "Lapidary work" industries]

|                                     |     |       |                  |             |             |                           |             |
|-------------------------------------|-----|-------|------------------|-------------|-------------|---------------------------|-------------|
| <i>United States</i>                |     |       |                  |             |             |                           |             |
| 1925.....                           | 83  | 589   | 515              | \$1,284,991 | \$7,272,868 | <sup>1</sup> \$10,122,782 | \$2,849,914 |
| 1923.....                           | 87  | 644   | 566              | 1,286,291   | 5,887,061   | <sup>1</sup> 9,129,842    | 3,242,781   |
| 1921.....                           | 64  | 399   | ( <sup>2</sup> ) | 737,922     | 2,840,309   | <sup>1</sup> 4,345,214    | 1,504,905   |
| 1919.....                           | 124 | 1,155 | 680              | 2,837,811   | 19,363,004  | <sup>1</sup> 30,051,460   | 10,688,456  |
| <i>States, 1925</i>                 |     |       |                  |             |             |                           |             |
| California.....                     | 10  | 44    | 34               | 58,160      | 31,070      | 149,205                   | 118,135     |
| Illinois.....                       | 4   | 35    | 34               | 78,537      | 37,189      | 197,056                   | 159,867     |
| Massachusetts.....                  | 3   | 34    | 11               | 45,330      | 21,107      | 81,776                    | 60,669      |
| New York.....                       | 58  | 354   | 385              | 932,734     | 5,080,814   | 7,169,874                 | 2,119,060   |
| All other States <sup>3</sup> ..... | 8   | 122   | 51               | 170,230     | 2,132,688   | 2,524,871                 | 392,183     |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in lapidary work: 1925, \$138,555; corresponding amounts for earlier years not calculated. Does not include the following values of lapidary work reported by establishments engaged primarily in other industries: 1925, \$5,924; 1921, \$30,642; 1919, \$21,124. No comparable data for 1923.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Connecticut, 1 establishment; Michigan, 1; New Jersey, 4; Pennsylvania, 2.

## MATTRESSES AND BED SPRINGS, NOT ELSEWHERE CLASSIFIED

[Principal products: Mattresses filled with hair, cotton, felt, moss, or similar material; wire springs for use on beds, couches, and cots; cushions and slip-on covers other than canvas or tarpaulin]

|                           |       |        |                  |              |              |                            |              |
|---------------------------|-------|--------|------------------|--------------|--------------|----------------------------|--------------|
| <i>United States</i>      |       |        |                  |              |              |                            |              |
| 1925.....                 | 1,018 | 14,403 | 32,840           | \$17,429,710 | \$62,489,286 | <sup>1</sup> \$110,716,896 | \$48,227,610 |
| 1923.....                 | 1,015 | 14,103 | 30,324           | 16,472,696   | 61,476,696   | <sup>1</sup> 107,561,684   | 46,084,988   |
| 1921.....                 | 889   | 11,748 | ( <sup>2</sup> ) | 13,546,457   | 42,056,162   | <sup>1</sup> 74,623,976    | 32,567,814   |
| 1919.....                 | 1,941 | 12,637 | 23,387           | 12,805,351   | 49,208,560   | <sup>1</sup> 83,952,609    | 34,744,049   |
| <i>States 1925</i>        |       |        |                  |              |              |                            |              |
| Alabama.....              | 12    | 152    | 322              | 115,127      | 508,026      | 895,677                    | 387,651      |
| Arkansas.....             | 9     | 158    | 421              | 193,271      | 503,297      | 874,594                    | 371,297      |
| California.....           | 82    | 907    | 1,912            | 1,040,207    | 3,490,435    | 6,020,109                  | 2,529,674    |
| Colorado.....             | 5     | 127    | 426              | 138,511      | 514,368      | 858,461                    | 344,093      |
| Connecticut.....          | 24    | 119    | 395              | 155,216      | 546,773      | 977,882                    | 431,109      |
| District of Columbia..... | 7     | 96     | 133              | 127,917      | 210,992      | 516,750                    | 305,758      |
| Florida.....              | 18    | 200    | 374              | 240,140      | 1,033,848    | 1,794,120                  | 760,272      |
| Georgia.....              | 18    | 617    | 928              | 572,690      | 2,569,037    | 4,829,137                  | 2,260,100    |
| Illinois.....             | 72    | 1,869  | 3,603            | 2,334,304    | 7,696,965    | 14,346,931                 | 6,649,966    |
| Indiana.....              | 24    | 489    | 780              | 529,057      | 1,561,688    | 2,732,560                  | 1,170,872    |
| Iowa.....                 | 11    | 59     | 205              | 61,443       | 254,484      | 470,871                    | 216,387      |
| Kansas.....               | 11    | 110    | 361              | 121,276      | 427,257      | 785,605                    | 358,348      |
| Kentucky.....             | 10    | 204    | 776              | 213,947      | 978,048      | 1,597,641                  | 619,593      |
| Louisiana.....            | 13    | 128    | 412              | 105,818      | 427,963      | 729,398                    | 301,430      |
| Maine.....                | 5     | 61     | 246              | 56,996       | 239,211      | 427,485                    | 188,274      |
| Maryland.....             | 16    | 243    | 565              | 231,283      | 1,030,087    | 1,664,577                  | 634,490      |
| Massachusetts.....        | 65    | 763    | 1,619            | 944,315      | 3,551,591    | 6,121,540                  | 2,569,949    |
| Michigan.....             | 22    | 380    | 1,384            | 573,694      | 2,381,413    | 4,098,928                  | 1,717,515    |
| Minnesota.....            | 15    | 420    | 1,358            | 482,764      | 2,129,230    | 3,292,418                  | 1,163,188    |
| Mississippi.....          | 6     | 44     | 166              | 34,737       | 178,679      | 276,707                    | 98,028       |
| Missouri.....             | 34    | 327    | 871              | 384,256      | 1,118,756    | 2,143,344                  | 1,024,588    |
| Nebraska.....             | 6     | 54     | 168              | 47,661       | 163,830      | 268,506                    | 104,676      |
| New Hampshire.....        | 3     | 12     | 40               | 14,920       | 69,665       | 105,674                    | 36,009       |
| New Jersey.....           | 35    | 950    | 2,454            | 1,421,752    | 4,567,097    | 8,468,717                  | 3,901,620    |

See footnotes on next page at end of this section

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE  | Number of establishments | Wage earners (average number) | Horse-power | Wages       | Cost of materials | Value of products | Value added by manufacture |
|---|--------------------------|-------------------------------|-------------|-------------|-------------------|-------------------|----------------------------|
| <b>MATTRESSES AND BED SPRINGS, NOT ELSEWHERE CLASSIFIED—Continued</b> |                          |                               |             |             |                   |                   |                            |
| <i>States, 1925—Contd.</i>  |                          |                               |             |             |                   |                   |                            |
| New York.....   | 182                      | 1,664                         | 2,749       | \$2,554,779 | \$9,086,740       | \$16,375,440      | \$7,288,691                |
| North Carolina.....   | 17                       | 226                           | 562         | 187,845     | 943,510           | 1,484,610         | 541,100                    |
| Ohio.....   | 42                       | 553                           | 1,743       | 722,046     | 2,860,498         | 5,217,062         | 2,356,564                  |
| Oklahoma.....   | 17                       | 187                           | 452         | 207,359     | 737,036           | 1,265,071         | 523,035                    |
| Oregon.....   | 13                       | 145                           | 382         | 167,138     | 696,115           | 1,193,440         | 562,325                    |
| Pennsylvania.....   | 61                       | 1,072                         | 2,288       | 1,393,647   | 4,168,851         | 7,675,253         | 3,506,402                  |
| Rhode Island.....   | 6                        | 53                            | 186         | 71,426      | 220,721           | 355,868           | 135,147                    |
| South Carolina.....   | 7                        | 41                            | 120         | 28,069      | 110,445           | 184,093           | 73,648                     |
| Tennessee.....  | 14                       | 564                           | 802         | 499,061     | 1,895,944         | 3,133,440         | 1,237,496                  |
| Texas.....  | 53                       | 363                           | 1,201       | 329,605     | 1,274,628         | 2,225,637         | 951,009                    |
| Utah.....   | 8                        | 54                            | 301         | 167,338     | 306,397           | 306,397           | 139,059                    |
| Virginia.....   | 17                       | 241                           | 507         | 211,278     | 936,868           | 1,694,720         | 757,852                    |
| Washington.....   | 11                       | 90                            | 459         | 113,629     | 404,235           | 687,782           | 283,517                    |
| West Virginia.....  | 6                        | 65                            | 160         | 75,201      | 316,132           | 566,161           | 250,029                    |
| Wisconsin.....  | 24                       | 539                           | 890         | 561,175     | 2,282,188         | 3,617,626         | 1,335,438                  |
| All other States <sup>1</sup> .....                                   | 12                       | 52                            | 319         | 62,669      | 235,288           | 431,609           | 196,381                    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of mattresses and bed springs: 1925, \$6,345,247; corresponding amounts for earlier years not calculated. Does not include the following values of mattresses and bed springs made as secondary products by establishments classified in other industries: 1925, \$10,830,707; 1923, \$10,824,040; 1921, \$4,651,697; 1919, \$11,535,108.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Arizona, 2 establishments; Delaware, 3; Idaho, 2; Montana, 1; New Mexico, 1; North Dakota, 1; South Dakota, 1; Vermont, 1.

## MODELS AND PATTERNS, NOT INCLUDING PAPER PATTERNS

[Principal products: Patterns and models for use in making matrices or molds for casting brick and glassware; wax figures, dress forms, and similar commodities]

|                                     |     |       |                  |             |             |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|-------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |             |                           |              |
| 1925.....                           | 689 | 5,262 | 10,473           | \$9,419,777 | \$4,927,220 | <sup>1</sup> \$22,484,585 | \$17,557,355 |
| 1923.....                           | 697 | 5,813 | 12,072           | 9,765,810   | 11,187,572  | <sup>1</sup> 30,164,709   | 18,977,137   |
| 1921.....                           | 656 | 3,936 | ( <sup>2</sup> ) | 6,026,634   | 4,042,100   | <sup>1</sup> 15,742,112   | 11,700,013   |
| 1919.....                           | 928 | 6,949 | 13,750           | 10,318,104  | 6,395,834   | <sup>1</sup> 25,300,389   | 18,904,555   |
| <i>States, 1925</i>                 |     |       |                  |             |             |                           |              |
| California.....                     | 48  | 242   | 517              | 454,802     | 274,165     | 1,155,448                 | \$81,283     |
| Colorado.....                       | 6   | 11    | 33               | 17,160      | 13,878      | 58,817                    | 44,939       |
| Connecticut.....                    | 23  | 140   | 251              | 247,450     | 85,064      | 529,067                   | 444,001      |
| District of Columbia.....           | 3   | 21    | 14               | 29,619      | 20,117      | 60,615                    | 40,498       |
| Illinois.....                       | 81  | 522   | 996              | 981,293     | 461,838     | 2,304,024                 | 1,842,186    |
| Indiana.....                        | 18  | 99    | 231              | 160,188     | 87,335      | 366,171                   | 278,836      |
| Iowa.....                           | 4   | 13    | 26               | 20,389      | 7,644       | 42,452                    | 34,808       |
| Kentucky.....                       | 3   | 5     | 14               | 6,189       | 8,270       | 27,194                    | 18,921       |
| Maryland.....                       | 10  | 34    | 102              | 48,666      | 20,372      | 129,950                   | 103,578      |
| Massachusetts.....                  | 67  | 528   | 583              | 983,193     | 418,386     | 2,261,108                 | 1,842,722    |
| Michigan.....                       | 33  | 473   | 318              | 1,039,552   | 291,869     | 1,962,672                 | 1,670,803    |
| Minnesota.....                      | 10  | 50    | 81               | 71,110      | 27,229      | 164,590                   | 137,361      |
| Missouri.....                       | 23  | 191   | 238              | 318,183     | 103,256     | 756,333                   | 653,577      |
| New Jersey.....                     | 32  | 182   | 356              | 325,947     | 140,650     | 749,370                   | 608,720      |
| New York.....                       | 101 | 890   | 1,307            | 1,582,041   | 1,110,909   | 4,476,711                 | 3,365,802    |
| Ohio.....                           | 99  | 888   | 2,562            | 1,541,017   | 655,527     | 3,441,714                 | 2,736,187    |
| Oregon.....                         | 7   | 32    | 101              | 51,167      | 20,246      | 116,058                   | 95,812       |
| Pennsylvania.....                   | 64  | 503   | 1,684            | 770,861     | 893,402     | 2,324,548                 | 1,431,146    |
| Rhode Island.....                   | 7   | 61    | 69               | 91,249      | 41,127      | 168,865                   | 127,738      |
| Washington.....                     | 10  | 40    | 191              | 70,645      | 29,899      | 165,961                   | 136,062      |
| Wisconsin.....                      | 25  | 288   | 414              | 513,819     | 147,935     | 989,180                   | 841,245      |
| All other States <sup>1</sup> ..... | 15  | 59    | 185              | 95,207      | 68,112      | 239,237                   | 171,125      |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of models and patterns, not including paper patterns: 1925, \$438,368; corresponding amounts for earlier years not calculated. Does not include the following values of models and patterns, not including paper patterns, made as secondary products by establishments classified in other industries: 1925, \$816,809; 1923, \$1,247,026; 1921, \$432,206; 1919, \$1,105,565.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 1 establishment; Delaware, 1; Georgia, 1; Kansas, 1; Louisiana, 1; Maine, 1; Nebraska, 2; Oklahoma, 2; Tennessee, 1; Texas, 1; Virginia, 1; West Virginia, 2.



## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## MOTION PICTURES, NOT INCLUDING PROJECTION IN THEATERS

[The construction of scenery, stage settings, and properties used in the making of motion pictures, and the photography of scenes; the development of exposed films, printing of projection films, cutting and pasting, and other laboratory work necessary to the preparation of projection films for use. Although the production of motion pictures is not a manufacturing industry its commercial importance has become so great that data in regard to it have been collected and tabulated at the censuses for 1921, 1923, and 1925. No canvass of the industry as a whole was made at prior censuses, but at the census for 1919 the development of exposed films and the printing of projection films were included in the "Photographic materials" industry. The nature of the industry is such that figures reported for "value of products" are necessarily arbitrary, being based sometimes on the cost of producing projection films and sometimes on the estimated rental value of such films. Owing to the difficulty of obtaining value figures of any significance, it was decided, at the census for 1925, to ask for the total cost of production in place of the value of products. Establishments engaged in laboratory work, however, reported as the value of products the amount received for work done during the year]

|                                     |     |       |        |              |              |              |              |
|-------------------------------------|-----|-------|--------|--------------|--------------|--------------|--------------|
| <i>United States</i>                |     |       |        |              |              |              |              |
| 1925.....                           | 132 | 5,573 | 29,472 | \$13,065,756 | \$33,258,368 | \$93,636,348 | \$60,377,980 |
| 1923.....                           | 97  | 6,408 | 15,476 | 16,601,153   | 30,656,770   | 86,418,170   | 55,761,400   |
| 1921.....                           | 127 | 6,259 | (1)    | 14,740,009   | 31,190,160   | 77,397,351   | 46,207,221   |
| 1919 <sup>2</sup> .....             | 50  | 3,646 | 4,169  | 6,708,661    | 19,579,419   | 36,705,207   | 17,125,788   |
| <i>States, 1925</i>                 |     |       |        |              |              |              |              |
| California.....                     | 72  | 3,722 | 21,372 | 8,783,692    | 16,476,967   | 62,821,194   | 46,344,227   |
| Michigan.....                       | 3   | 44    | 28     | 41,992       | 72,947       | 179,032      | 103,105      |
| New Jersey.....                     | 8   | 449   | 877    | 651,340      | 4,925,450    | 6,381,330    | 1,455,860    |
| New York.....                       | 18  | 1,037 | 5,861  | 3,033,785    | 9,751,510    | 20,823,267   | 11,061,767   |
| All other States <sup>3</sup> ..... | 31  | 351   | 1,344  | 554,947      | 2,021,464    | 3,431,505    | 1,410,041    |

<sup>1</sup> Not called for on schedule.

<sup>2</sup> The statistics for motion pictures compiled for 1919 referred only to the development of exposed motion-picture films and the printing of projection films and are not, therefore, comparable with the figures for later years. These figures were included in those for the "Photographic materials" industry as published in the 1919 report.

<sup>3</sup> Colorado, 1 establishment; Illinois, 8; Iowa, 2; Louisiana, 2; Massachusetts, 2; Minnesota, 2; Missouri, 1; Ohio, 4; Oregon, 2; Pennsylvania, 3; Texas, 1; Washington, 3.

## OPTICAL GOODS

[Principal products: Spectacles, eyeglasses, goggles, frames, and mountings; lenses and prisms; microscopes, telescopes, field glasses, and opera glasses; ophthalmic instruments and apparatus; photomicro and microprojection apparatus; optical testing and measuring instruments; surveyors', nautical, and similar instruments; and artificial human eyes and glass eyes for hurriers and taxidermists. Establishments grinding lenses on prescription, heretofore included in this industry (through failure of some manufacturers to state specifically whether they were engaged in grinding lenses on prescription to individual order), were not canvassed at the census for 1923]

|                                     |     |        |        |              |             |                           |              |
|-------------------------------------|-----|--------|--------|--------------|-------------|---------------------------|--------------|
| <i>United States</i>                |     |        |        |              |             |                           |              |
| 1925.....                           | 117 | 8,642  | 11,017 | \$10,438,614 | \$9,996,957 | <sup>1</sup> \$33,654,559 | \$23,657,602 |
| 1923.....                           | 457 | 12,205 | 13,397 | 14,338,192   | 19,111,997  | <sup>1</sup> 54,462,161   | 35,350,164   |
| 1921.....                           | 452 | 11,120 | (2)    | 12,723,183   | 16,520,454  | <sup>1</sup> 44,292,084   | 27,771,630   |
| 1919 <sup>2</sup> .....             | 506 | 14,723 | 15,649 | 14,388,207   | 17,785,083  | <sup>1</sup> 53,717,798   | 35,932,715   |
| <i>States, 1925</i>                 |     |        |        |              |             |                           |              |
| Colorado.....                       | 4   | 52     | 96     | 62,957       | 28,368      | 163,573                   | 135,205      |
| Illinois.....                       | 5   | 232    | 236    | 316,673      | 390,471     | 1,047,331                 | 656,860      |
| Massachusetts.....                  | 19  | 2,569  | 3,891  | 2,895,481    | 3,636,431   | 10,782,566                | 7,146,135    |
| New Jersey.....                     | 10  | 599    | 670    | 777,251      | 734,899     | 2,448,989                 | 1,714,090    |
| New York.....                       | 45  | 3,900  | 4,477  | 5,110,376    | 3,599,594   | 14,368,390                | 10,768,796   |
| Pennsylvania.....                   | 12  | 500    | 717    | 527,939      | 926,063     | 2,442,530                 | 1,516,467    |
| Rhode Island.....                   | 4   | 216    | 80     | 237,253      | 258,165     | 622,301                   | 364,136      |
| All other States <sup>3</sup> ..... | 18  | 574    | 850    | 510,684      | 422,966     | 1,778,879                 | 1,355,913    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of optical goods: 1925, \$1,028,964; corresponding amounts for earlier years not calculated. Does not include the following values of optical goods made as secondary products by establishments classified in other industries: 1925, \$424,105; 1923, \$339,166; 1921, \$429,802; 1919, \$1,095,786.

<sup>2</sup> Includes establishments engaged in the grinding of lenses for spectacles and eyeglasses from prescriptions.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Alabama, 1 establishment; California, 1; Connecticut, 1; Indiana, 2; Iowa, 1; Kansas, 1; Kentucky, 1; Michigan, 1; Minnesota, 1; Missouri, 2; Montana, 1; Ohio, 1; Oregon, 1; Tennessee, 1; Virginia, 1; Wisconsin, 1.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE  | Number of establishments | Wage earners (average number) | Horse-power                 | Wages        | Cost of materials | Value of products         | Value added by manufacture |
|---|--------------------------|-------------------------------|-----------------------------|--------------|-------------------|---------------------------|----------------------------|
| <b>PAVING MATERIALS, OTHER THAN BRICK</b>   |                          |                               |                             |              |                   |                           |                            |
| <i>[Principal products: (1) Paving blocks made of asphalt, crosshatched wood, bluestone, concrete, granite, and various compositions; (2) mixed paving materials, including artificial asphalt, asphalt mixture for top coat and binder, bituminous and other cements, liquid asphalt, and tar concrete; (3) unmixed materials, including crushed furnace slag, granite, sandstone, and limestone, distillates, pitch, tar, coal-tar, flux, screenings, macadam, riprap, and ballast]</i> |                          |                               |                             |              |                   |                           |                            |
| <i>United States</i>  |                          |                               |                             |              |                   |                           |                            |
| 1925.....   | 604                      | 17,941                        | 207,469                     | \$22,367,954 | \$33,434,660      | <sup>1</sup> \$90,630,056 | \$57,195,396               |
| 1923.....   | 627                      | 19,442                        | 197,290                     | 22,108,783   | 24,841,551        | <sup>1</sup> 71,455,822   | 46,614,271                 |
| 1921.....   | 653                      | 15,387                        | ( <sup>2</sup> ) 17,284,903 | 24,473,607   |                   | <sup>1</sup> 61,128,969   | 36,665,362                 |
| 1919.....   | 889                      | 16,072                        | 191,471                     | 17,169,154   | 16,019,811        | <sup>1</sup> 45,740,606   | 29,720,795                 |
| <i>States, 1925</i>   |                          |                               |                             |              |                   |                           |                            |
| Alabama.....  | 7                        | 490                           | 2,736                       | 481,508      | 2,094,513         | 3,893,177                 | 1,798,664                  |
| California.....   | 30                       | 1,266                         | 20,449                      | 1,937,220    | 2,209,275         | 7,788,964                 | 5,579,689                  |
| Connecticut.....  | 12                       | 325                           | 4,466                       | 520,985      | 336,412           | 1,916,896                 | 1,580,484                  |
| Florida.....  | 7                        | 474                           | 1,539                       | 479,729      | 1,332,081         | 2,155,539                 | 823,478                    |
| Georgia.....  | 8                        | 424                           | 2,797                       | 251,507      | 182,434           | 733,373                   | 550,939                    |
| Illinois.....   | 28                       | 1,188                         | 21,098                      | 1,908,437    | 2,301,259         | 6,932,500                 | 4,631,301                  |
| Indiana.....  | 20                       | 577                           | 8,553                       | 696,638      | 976,008           | 2,712,702                 | 1,736,694                  |
| Iowa.....   | 12                       | 180                           | 2,665                       | 203,487      | 111,131           | 518,988                   | 407,857                    |
| Kansas.....   | 10                       | 198                           | 1,654                       | 189,839      | 126,454           | 584,767                   | 458,307                    |
| Kentucky.....   | 18                       | 442                           | 5,094                       | 336,219      | 271,418           | 882,005                   | 610,587                    |
| Maryland.....   | 19                       | 449                           | 3,956                       | 536,798      | 743,161           | 1,583,827                 | 840,666                    |
| Massachusetts.....  | 16                       | 301                           | 4,856                       | 501,825      | 573,029           | 1,664,613                 | 1,091,584                  |
| Michigan.....   | 3                        | 127                           | 1,326                       | 232,045      | 687,048           | 1,567,636                 | 880,588                    |
| Minnesota.....  | 3                        | 139                           | 2,922                       | 245,126      | 292,852           | 1,008,427                 | 805,875                    |
| Missouri.....   | 37                       | 938                           | 7,146                       | 979,834      | 906,054           | 2,851,944                 | 1,945,890                  |
| Nebraska.....   | 4                        | 62                            | 7,787                       | 86,239       | 89,028            | 238,607                   | 149,577                    |
| New Jersey.....   | 29                       | 782                           | 9,399                       | 1,247,770    | 3,187,949         | 7,889,896                 | 4,701,947                  |
| New York.....   | 47                       | 1,773                         | 28,756                      | 2,815,477    | 4,107,069         | 11,030,280                | 6,923,211                  |
| North Carolina.....   | 12                       | 595                           | 2,463                       | 455,771      | 359,935           | 1,292,706                 | 932,771                    |
| Ohio.....   | 64                       | 1,861                         | 21,173                      | 2,369,218    | 5,132,499         | 12,547,377                | 7,414,878                  |
| Oklahoma.....   | 11                       | 463                           | 4,290                       | 416,827      | 216,217           | 1,108,947                 | 892,730                    |
| Oregon.....   | 5                        | 107                           | 915                         | 161,776      | 176,821           | 693,524                   | 518,703                    |
| Pennsylvania.....   | 122                      | 2,376                         | 24,229                      | 2,834,414    | 4,892,707         | 11,473,298                | 6,580,591                  |
| Rhode Island.....   | 5                        | 57                            | 595                         | 78,023       | 140,285           | 331,692                   | 191,407                    |
| South Carolina.....   | 4                        | 298                           | 3,250                       | 269,612      | 235,804           | 800,238                   | 504,434                    |
| South Dakota.....   | 5                        | 52                            | 674                         | 64,630       | 31,952            | 126,672                   | 94,720                     |
| Tennessee.....  | 10                       | 279                           | 1,392                       | 184,462      | 177,018           | 616,109                   | 439,091                    |
| Texas.....  | 7                        | 226                           | 3,245                       | 214,108      | 282,409           | 796,961                   | 514,552                    |
| Virginia.....   | 12                       | 482                           | 4,447                       | 461,256      | 412,138           | 1,309,944                 | 1,097,806                  |
| West Virginia.....  | 7                        | 195                           | 1,901                       | 185,258      | 131,919           | 618,086                   | 486,167                    |
| Wisconsin.....  | 16                       | 481                           | 6,280                       | 617,235      | 435,621           | 1,570,235                 | 1,134,714                  |
| All other States <sup>3</sup> .....   | 14                       | 334                           | 2,466                       | 410,681      | 282,260           | 1,098,052                 | 815,792                    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of paving material: 1925, \$9,830,546; corresponding amounts for earlier years not calculated. Does not include the following values of paving materials made as secondary products by establishments classified in other industries: 1925, \$4,190,280; 1923, \$2,297,924; 1921, \$2,797,639; 1919, \$534,842.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Arkansas, 2 establishments; Colorado, 2; Delaware, 2; Maine, 1; Mississippi, 1; New Hampshire, 1; Utah, 1; Vermont, 1; Washington, 2; Wyoming, 1.

## PENCILS, LEAD

*[Principal products: Complete pencils made of graphite and wood, pencils with metal holders and removable leads, holders only, leads only, and colored and indelible pencils]*

|                                   |                 |       |                            |             |             |                           |              |
|-----------------------------------|-----------------|-------|----------------------------|-------------|-------------|---------------------------|--------------|
| <i>United States</i> <sup>1</sup> |                 |       |                            |             |             |                           |              |
| 1925.....                         | <sup>2</sup> 25 | 5,636 | 8,209                      | \$6,031,305 | \$9,168,525 | <sup>3</sup> \$25,050,757 | \$15,882,232 |
| 1923.....                         | 20              | 5,826 | 7,288                      | 5,540,474   | 8,659,173   | <sup>3</sup> 24,567,504   | 15,908,331   |
| 1921.....                         | 14              | 5,134 | ( <sup>4</sup> ) 5,034,899 | 7,259,861   |             | <sup>3</sup> 21,382,050   | 14,122,189   |
| 1919.....                         | 12              | 5,970 | 8,093                      | 5,299,050   | 9,073,563   | <sup>3</sup> 24,134,159   | 15,060,596   |

<sup>1</sup> Statistics for States can not be given without disclosing operations of individual establishments.

<sup>2</sup> California, 1 establishment; Georgia, 2; Illinois, 6; Minnesota, 1; Missouri, 1; New Jersey, 4; New York, 5; Oregon, 1; Pennsylvania, 2; Rhode Island, 1; West Virginia, 1.

<sup>3</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of lead pencils: 1925, \$5,861,792; corresponding amounts for earlier years not calculated. Does not include the following values of lead pencils made as secondary products by establishments classified in other industries: 1925, \$1,329,872; 1923, \$927,761; 1921, \$149,027; 1919, \$9,769.

<sup>4</sup> Not called for on schedule.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power      | Wages       | Cost of materials | Value of products         | Value added by manufacture |
|--|--------------------------|-------------------------------|------------------|-------------|-------------------|---------------------------|----------------------------|
| <b>PENS, FOUNTAIN AND STYLOGRAPHIC</b>   |                          |                               |                  |             |                   |                           |                            |
| [Principal products: Complete fountain pens, stylographic pens, and ink pencils; rubber holders and other parts, except gold pens, which are products of the "Pens, gold," industry] |                          |                               |                  |             |                   |                           |                            |
| <i>United States</i>   |                          |                               |                  |             |                   |                           |                            |
| 1925-----  | 60                       | 3,490                         | 3,213            | \$4,054,878 | \$7,740,706       | <sup>1</sup> \$24,035,321 | \$16,294,615               |
| 1923-----  | 53                       | 3,398                         | 2,710            | 3,659,206   | 7,909,464         | <sup>1</sup> 20,239,491   | 12,330,027                 |
| 1921-----  | 51                       | 2,742                         | ( <sup>2</sup> ) | 3,043,920   | 5,619,854         | <sup>1</sup> 12,794,514   | 7,174,660                  |
| 1919-----  | 56                       | 3,207                         | 1,492            | 2,980,663   | 5,811,419         | <sup>1</sup> 15,996,808   | 10,185,389                 |
| <i>States, 1925</i>  |                          |                               |                  |             |                   |                           |                            |
| Massachusetts-----   | 4                        | 107                           | 60               | 121,280     | 346,296           | 793,519                   | 447,223                    |
| New York-----  | 28                       | 695                           | 468              | 923,934     | 1,849,760         | 4,719,948                 | 2,870,188                  |
| Ohio-----  | 6                        | 237                           | 190              | 245,918     | 576,936           | 1,585,377                 | 1,008,441                  |
| All other States <sup>3</sup> -----  | 22                       | 2,451                         | 2,495            | 2,763,746   | 4,967,714         | 16,936,477                | 11,968,763                 |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of fountain and stylographic pens: 1925, \$1,850,910; corresponding amounts for earlier years not calculated. Does not include the following values of fountain or stylographic pens made as secondary products, by establishments classified in other industries: 1925, \$1,807,862; 1923, \$1,900,905; 1921, \$1,129,761; 1919, \$868,039.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 1 establishment; Connecticut, 1; Illinois, 5; Iowa, 1; Michigan, 1; Missouri, 1; New Jersey, 6; Pennsylvania, 1; Rhode Island, 1; Virginia, 1; Wisconsin, 3. New Jersey and Wisconsin each reported a larger value of products than any of the States for which figures are shown.

## PHOTOGRAPHIC APPARATUS AND MATERIALS

[Principal products: Cameras, motion-picture machines, photostat machines, and blue-printing machines; flash-light apparatus and materials; tripods, plate holders, film rewinders and reels, and developing tanks, sensitized paper and cloth, dry plates and films; lantern and stereopticon slides; and sheet gelatin]

|                         |                  |        |                  |              |              |                           |              |
|-------------------------|------------------|--------|------------------|--------------|--------------|---------------------------|--------------|
| <i>United States</i>    |                  |        |                  |              |              |                           |              |
| 1925-----               | <sup>1</sup> 118 | 9,154  | 22,866           | \$13,300,259 | \$25,779,218 | <sup>2</sup> \$78,653,651 | \$52,874,433 |
| 1923-----               | 111              | 9,905  | 34,791           | 13,224,381   | 19,253,149   | <sup>2</sup> 71,828,028   | 52,574,879   |
| 1921-----               | 136              | 10,690 | ( <sup>3</sup> ) | 13,771,145   | 22,835,741   | <sup>2</sup> 70,595,344   | 47,750,603   |
| 1919 <sup>4</sup> ----- | 187              | 13,465 | 24,610           | 14,900,237   | 33,806,708   | <sup>2</sup> 88,393,022   | 54,586,314   |

<sup>1</sup> California, 10 establishments; Colorado, 1; Illinois, 22; Indiana, 4; Iowa, 2; Massachusetts, 4; Michigan, 2; Minnesota, 4; Missouri, 9; New Jersey, 2; New York, 35; Ohio, 3; Pennsylvania, 17; Vermont, 1; Washington, 1; Wisconsin, 1. Statistics for California, Illinois, Minnesota, Missouri, and Pennsylvania are given in Table III, beginning on page 1302. In order to avoid disclosing operations of individual establishments, no statistics are given for New York, the leading State in the industry, nor for other States with the exception of those named in the preceding sentence.

<sup>2</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of photographic apparatus: 1925, \$35,332, corresponding amounts for earlier years not calculated. Does not include the following values of photographic apparatus made as secondary products by establishments classified in other industries: 1925, \$85,379; 1923, \$977,522; 1921, \$1,368,347; 1919, \$1,173,791.

<sup>3</sup> Not called for on schedule.

<sup>4</sup> Not including data for 50 establishments engaged primarily in the development of exposed motion-picture films and the printing of projection films, which were included in the statistics for "Photographic materials" as published in the report for 1919.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power | Wages       | Cost of materials | Value of products | Value added by manufacture |
|--|--------------------------|-------------------------------|-------------|-------------|-------------------|-------------------|----------------------------|
| <b>PIPES (TOBACCO) AND CIGAR AND CIGARETTE HOLDERS</b>   |                          |                               |             |             |                   |                   |                            |
| <i>[Principal products: Tobacco pipes of all kinds, and cigar and cigarette holders made of various kinds of wood, corncobs, clay, meerschaum, and composition, with mouthpieces of amber, rubber, bone, celluloid, horn, ivory, etc.]</i> |                          |                               |             |             |                   |                   |                            |
| <i>United States</i>   |                          |                               |             |             |                   |                   |                            |
| 1925.....  | 28                       | 1,970                         | 2,052       | \$2,290,769 | \$2,718,135       | \$7,298,595       | \$4,580,460                |
| 1923.....  | 30                       | 2,402                         | 2,354       | 2,720,218   | 3,827,927         | 9,704,816         | 5,876,889                  |
| 1921.....  | 36                       | 1,765                         | (?)         | 1,937,097   | 2,825,856         | 7,123,810         | 4,297,954                  |
| 1919.....  | 56                       | 2,539                         | 2,001       | 2,555,291   | 3,497,414         | 11,553,777        | 8,056,363                  |
| <i>States, 1925</i>  |                          |                               |             |             |                   |                   |                            |
| Missouri.....  | 7                        | 369                           | 325         | 238,398     | 344,886           | 840,157           | 495,271                    |
| New York.....  | 15                       | 1,291                         | 1,323       | 1,571,986   | 1,862,790         | 5,079,867         | 3,217,077                  |
| All other States <sup>1</sup> .....  | 6                        | 310                           | 404         | 480,385     | 510,459           | 1,378,571         | 868,112                    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of pipes (tobacco) and cigar and cigarette holders: 1925, \$22,459; corresponding amounts for earlier years not calculated. Does not include the following values of tobacco pipes and cigar and cigarette holders made as secondary products by establishments classified in other industries: 1925, \$82,960; 1923, \$9,108; 1919, \$6,400. No comparable data for 1921.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 1 establishment; Illinois, 2; Massachusetts, 1; New Jersey, 1; Virginia, 1.

## ROOFING MATERIALS, NOT INCLUDING WOOD, SLATE, BURNT TILE, ASBESTOS, OR METAL OTHER THAN METAL SHINGLES AND CEILING

*[Principal products: Metal shingles and ceilings, tarred and other saturated roofing felts, asphalt shingles, mastic, and roofing pitch. (The laying of roofing, which is a building and not a manufacturing process, is not included in this industry)]*

|                                     |     |       |        |              |              |               |              |
|-------------------------------------|-----|-------|--------|--------------|--------------|---------------|--------------|
| <i>United States</i>                |     |       |        |              |              |               |              |
| 1925.....                           | 140 | 8,310 | 34,161 | \$12,144,764 | \$78,596,627 | \$123,590,811 | \$44,994,184 |
| 1923.....                           | 122 | 7,665 | 39,598 | 10,826,123   | 55,520,343   | 84,341,931    | 28,821,588   |
| 1921.....                           | 136 | 6,908 | (?)    | 9,213,047    | 45,013,397   | 76,193,430    | 31,150,035   |
| 1919.....                           | 178 | 8,871 | 39,247 | 10,344,043   | 52,587,777   | 85,895,359    | 33,307,582   |
| <i>States, 1925</i>                 |     |       |        |              |              |               |              |
| California.....                     | 9   | 485   | 1,815  | 666,005      | 5,256,049    | 8,135,211     | 2,876,162    |
| Illinois.....                       | 24  | 2,561 | 10,788 | 4,203,476    | 28,415,700   | 42,308,422    | 13,892,722   |
| Massachusetts.....                  | 6   | 507   | 1,897  | 644,770      | 4,789,280    | 9,004,734     | 4,215,451    |
| Michigan.....                       | 8   | 189   | 2,100  | 265,903      | 1,465,878    | 2,382,446     | 916,563      |
| Missouri.....                       | 7   | 166   | 622    | 200,755      | 1,818,350    | 3,153,104     | 1,334,754    |
| New Jersey.....                     | 14  | 1,070 | 3,428  | 1,626,877    | 9,785,790    | 17,170,082    | 7,384,232    |
| New York.....                       | 11  | 350   | 1,431  | 525,641      | 4,324,220    | 5,877,257     | 1,553,037    |
| Ohio.....                           | 10  | 961   | 3,444  | 1,621,911    | 6,456,946    | 10,303,540    | 3,846,594    |
| Pennsylvania.....                   | 17  | 1,249 | 5,962  | 1,533,516    | 9,901,011    | 15,667,183    | 5,766,172    |
| Virginia.....                       | 3   | 19    | 5      | 17,997       | 43,187       | 112,637       | 69,450       |
| All other States <sup>1</sup> ..... | 31  | 753   | 2,699  | 837,853      | 6,337,216    | 9,476,195     | 3,138,979    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of roofing materials: 1925, \$18,622,515; corresponding amounts for earlier years not calculated. Does not include the following values of roofing materials made as secondary products by establishments classified in other industries: 1925, \$8,207,330; 1923, \$4,649,096; 1921, \$8,776,319; 1919, \$8,415,514.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 2 establishments; Colorado, 1; Connecticut, 1; Florida, 2; Georgia, 1; Indiana, 3; Kentucky, 1; Louisiana, 5; Maryland, 2; Minnesota, 4; North Carolina, 1; Oklahoma, 1; Oregon, 2; South Carolina, 1; Tennessee, 1; Texas, 1; Utah, 1; Washington, 1.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power | Wages       | Cost of materials | Value of products         | Value added by manufacture |
|--|--------------------------|-------------------------------|-------------|-------------|-------------------|---------------------------|----------------------------|
| <b>SANDPAPER, EMERY PAPER, AND OTHER ABRASIVE PAPER AND CLOTH</b>  |                          |                               |             |             |                   |                           |                            |
| [Principal products: Paper and cloth coated with abrasives such as sand, emery, flint, quartz, carborundum, and glass] |                          |                               |             |             |                   |                           |                            |
| <i>United States</i> <sup>1</sup>  |                          |                               |             |             |                   |                           |                            |
| 1925.....  | <sup>2</sup> 12          | 1,230                         | 4,513       | \$1,713,967 | \$7,341,590       | <sup>3</sup> \$15,622,720 | \$8,281,130                |
| 1923.....  | 14                       | 1,176                         | 3,664       | 1,518,526   | 6,870,410         | <sup>3</sup> 13,753,079   | 6,882,669                  |
| 1921.....  | 12                       | 680                           | (4)         | 867,585     | 3,591,851         | <sup>3</sup> 6,462,025    | 2,870,174                  |
| 1919.....  | 12                       | 771                           | 3,977       | 840,766     | 5,060,561         | <sup>3</sup> 9,303,734    | 4,243,173                  |

<sup>1</sup> Statistics for States can not be given without disclosing operations of individual establishments.<sup>2</sup> Illinois, 1 establishment; Massachusetts, 1; Minnesota, 1; New Jersey, 1; New York, 4; Pennsylvania, 3; Wisconsin, 1.<sup>3</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of sandpaper, emery paper, and other abrasive paper and cloth: 1925, \$768,100; corresponding amounts for earlier years not calculated. Does not include the following values of sand, emery, and other abrasive paper and cloth made as secondary products by establishments classified in other industries: 1925, \$2,929,348; 1923, \$2,862,508; 1921, \$1,393,841; 1919, \$2,764,150.<sup>4</sup> Not called for on schedule.

## SIGNS AND ADVERTISING NOVELTIES

[Principal products: (1) Electric signs; illuminated signs; talking signs; street-car destination signs; painted and decorated show cards; gold-plated, metallic, enameled-wood, and other letters; and advertising novelties such as utensils and conveniences marked with advertising notices. Custom sign painting for offices and stores and on billboards is not included in this industry.]

|                                     |     |        |        |              |              |                           |              |
|-------------------------------------|-----|--------|--------|--------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |        |        |              |              |                           |              |
| 1925.....                           | 759 | 15,128 | 12,550 | \$20,764,187 | \$28,858,149 | <sup>1</sup> \$98,669,343 | \$63,811,194 |
| 1923.....                           | 648 | 12,988 | 11,781 | 16,429,469   | 22,641,082   | <sup>1</sup> 67,223,676   | 44,682,564   |
| 1921.....                           | 624 | 10,373 | (5)    | 12,703,005   | 18,734,401   | <sup>1</sup> 53,270,864   | 34,537,463   |
| 1919.....                           | 779 | 10,432 | 7,714  | 9,715,216    | 16,071,621   | <sup>1</sup> 43,343,093   | 27,271,169   |
| <i>States, 1925</i>                 |     |        |        |              |              |                           |              |
| California.....                     | 61  | 565    | 249    | 961,692      | 1,123,030    | 3,490,543                 | 2,367,513    |
| Colorado.....                       | 8   | 67     | 7      | 95,799       | 190,703      | 711,355                   | 529,682      |
| Connecticut.....                    | 13  | 91     | 17     | 130,611      | 309,594      | 669,538                   | 359,944      |
| Illinois.....                       | 114 | 3,040  | 2,595  | 4,298,861    | 5,064,014    | 19,507,415                | 14,413,401   |
| Indiana.....                        | 18  | 294    | 121    | 263,220      | 394,525      | 1,257,110                 | 862,885      |
| Iowa.....                           | 16  | 391    | 341    | 441,691      | 1,007,451    | 3,197,573                 | 2,190,122    |
| Kentucky.....                       | 6   | 176    | 183    | 146,459      | 318,595      | 971,459                   | 662,864      |
| Louisiana.....                      | 3   | 29     | —      | 22,355       | 21,841       | 114,681                   | 92,840       |
| Maine.....                          | 4   | 38     | 6      | 44,366       | 38,385       | 124,645                   | 86,260       |
| Maryland.....                       | 12  | 484    | 270    | 661,565      | 689,286      | 2,242,882                 | 1,553,596    |
| Massachusetts.....                  | 29  | 364    | 205    | 454,653      | 412,576      | 1,387,963                 | 975,287      |
| Michigan.....                       | 23  | 442    | 562    | 608,357      | 695,694      | 2,408,035                 | 1,712,041    |
| Minnesota.....                      | 34  | 1,439  | 1,483  | 1,442,107    | 2,438,379    | 8,188,781                 | 5,759,402    |
| Missouri.....                       | 29  | 487    | 196    | 578,001      | 697,284      | 2,459,684                 | 1,762,266    |
| Nebraska.....                       | 5   | 46     | —      | 63,152       | 73,991       | 368,272                   | 284,281      |
| New Jersey.....                     | 18  | 620    | 368    | 914,942      | 893,530      | 3,307,415                 | 2,414,317    |
| New York.....                       | 130 | 2,168  | 1,885  | 3,762,743    | 4,178,339    | 14,407,705                | 10,229,375   |
| North Carolina.....                 | 3   | 18     | 2      | 23,938       | 18,215       | 63,530                    | 45,315       |
| Ohio.....                           | 80  | 2,309  | 1,897  | 2,865,158    | 4,300,387    | 13,024,899                | 8,724,512    |
| Oregon.....                         | 12  | 55     | 14     | 92,998       | 57,767       | 248,631                   | 190,864      |
| Pennsylvania.....                   | 65  | 937    | 1,830  | 1,433,100    | 1,445,975    | 5,519,624                 | 4,074,549    |
| Tennessee.....                      | 9   | 118    | 14     | 157,330      | 145,472      | 675,664                   | 530,192      |
| Texas.....                          | 14  | 90     | 30     | 130,229      | 140,315      | 470,501                   | 330,186      |
| Virginia.....                       | 5   | 132    | 86     | 100,916      | 139,143      | 902,976                   | 763,833      |
| West Virginia.....                  | 4   | 30     | 1      | 36,210       | 15,281       | 95,038                    | 79,777       |
| Wisconsin.....                      | 12  | 485    | 256    | 464,068      | 534,235      | 1,751,186                 | 1,216,951    |
| All other States <sup>2</sup> ..... | 34  | 326    | 39     | 569,726      | 514,651      | 2,101,456                 | 1,586,805    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of signs and advertising novelties: 1925, \$2,298,718; corresponding amounts for earlier years not calculated. Does not include the following values of signs and advertising novelties made as secondary products by establishments classified in other industries: 1925, \$1,685,680; 1923, \$2,510,678; 1921, \$2,201,634; 1919, \$2,492,023.<sup>2</sup> Not called for on schedule.<sup>3</sup> Alabama, 2 establishments; District of Columbia, 7; Florida, 4; Georgia, 3; Kansas, 2; Montana, 1; New Hampshire, 1; North Dakota, 1; Oklahoma, 1; Rhode Island, 3; South Carolina, 1; Washington, 8.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power      | Wages         | Cost of materials | Value of products           | Value added by manufacture |
|--|--------------------------|-------------------------------|------------------|---------------|-------------------|-----------------------------|----------------------------|
| <b>SODA-WATER APPARATUS</b>  |                          |                               |                  |               |                   |                             |                            |
| <i>[Principal products: Soda fountains, parts, and accessories; root-beer barrels; siphons; carbonators; etc.]</i> |                          |                               |                  |               |                   |                             |                            |
| <i>United States</i>   |                          |                               |                  |               |                   |                             |                            |
| 1925.....  | 60                       | 2, 372                        | 4, 180           | \$3, 628, 340 | \$8, 632, 026     | <sup>1</sup> \$22, 031, 816 | \$13, 399, 790             |
| 1923.....  | 66                       | 2, 659                        | 4, 238           | 3, 779, 476   | 6, 712, 374       | <sup>1</sup> 18, 169, 234   | 11, 456, 860               |
| 1921.....  | 62                       | 2, 144                        | ( <sup>2</sup> ) | 3, 047, 981   | 6, 495, 791       | <sup>1</sup> 15, 407, 131   | 8, 911, 340                |
| 1919.....  | 66                       | 2, 599                        | 4, 131           | 3, 232, 398   | 6, 626, 568       | <sup>1</sup> 15, 183, 370   | 8, 558, 502                |
| <i>States, 1925</i>  |                          |                               |                  |               |                   |                             |                            |
| Illinois.....  | 10                       | 1, 190                        | 2, 392           | 1, 873, 335   | 4, 734, 845       | 12, 135, 574                | 7, 400, 729                |
| Massachusetts.....   | 4                        | 258                           | 722              | 353, 512      | 601, 559          | 1, 816, 455                 | 1, 214, 896                |
| New Jersey.....  | 5                        | 77                            | 95               | 116, 964      | 264, 801          | 577, 717                    | 312, 916                   |
| New York.....  | 20                       | 136                           | 167              | 279, 145      | 666, 166          | 1, 411, 697                 | 745, 531                   |
| Pennsylvania.....  | 4                        | 136                           | 183              | 225, 517      | 404, 015          | 1, 101, 052                 | 697, 037                   |
| All other States <sup>3</sup> .....  | 17                       | 575                           | 621              | 779, 867      | 1, 960, 640       | 4, 989, 321                 | 3, 023, 681                |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of soda-water apparatus: 1925, \$4,350,921; corresponding amounts for earlier years not calculated. Does not include the following values of soda-water apparatus made as secondary products by establishments classified in other industries: 1925, \$207,433; 1923, \$58,800; 1921, \$248,417; 1919, \$1,657,841.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 2 establishments; Colorado, 2; Kentucky, 1; Maryland, 2; Michigan, 1; Missouri, 1; North Carolina, 1; Ohio, 4; Texas, 1; Virginia, 1; Washington, 1.

## SPORTING AND ATHLETIC GOODS, NOT INCLUDING FIREARMS OR AMMUNITION

*[Principal products: Fishing rods and tackle of all kinds; bait baskets, buckets, and boxes; clay-pigeon traps; decoys; duck, crow, turkey, and snipe calls; gun cases, ammunition belts, and hunting coats; boxing gloves, punching bags, dumb-bells, and exercising machines; baseball, football, basket ball, tennis, golf, and polo goods; skates, ice, and roller; snowshoes, toboggans, etc.]*

|                                     |     |        |                  |                |                |                             |                |
|-------------------------------------|-----|--------|------------------|----------------|----------------|-----------------------------|----------------|
| <i>United States</i>                |     |        |                  |                |                |                             |                |
| 1925.....                           | 181 | 8, 724 | 11, 550          | \$10, 262, 203 | \$17, 874, 604 | <sup>1</sup> \$42, 629, 278 | \$24, 754, 674 |
| 1923.....                           | 170 | 9, 683 | 11, 091          | 10, 440, 207   | 18, 492, 511   | <sup>1</sup> 41, 797, 075   | 23, 304, 564   |
| 1921.....                           | 152 | 7, 063 | ( <sup>2</sup> ) | 7, 400, 470    | 15, 401, 261   | <sup>1</sup> 31, 811, 174   | 16, 409, 113   |
| 1919.....                           | 188 | 6, 412 | 6, 780           | 5, 752, 963    | 11, 969, 338   | <sup>1</sup> 23, 839, 991   | 11, 870, 603   |
| <i>States, 1925</i>                 |     |        |                  |                |                |                             |                |
| California.....                     | 7   | 50     | 20               | 54, 260        | 97, 062        | 215, 244                    | 118, 112       |
| Illinois.....                       | 30  | 952    | 1, 207           | 1, 310, 072    | 2, 255, 464    | 5, 607, 875                 | 3, 352, 411    |
| Indiana.....                        | 5   | 240    | 215              | 218, 984       | 404, 860       | 896, 080                    | 491, 220       |
| Maine.....                          | 4   | 62     | 218              | 55, 001        | 88, 848        | 188, 852                    | 100, 004       |
| Massachusetts.....                  | 16  | 1, 887 | 3, 732           | 2, 554, 736    | 4, 689, 478    | 10, 763, 417                | 6, 073, 939    |
| Minnesota.....                      | 5   | 69     | 112              | 80, 270        | 152, 996       | 324, 621                    | 171, 625       |
| Missouri.....                       | 6   | 267    | 86               | 234, 679       | 663, 676       | 1, 213, 754                 | 550, 078       |
| New Jersey.....                     | 11  | 148    | 218              | 171, 345       | 316, 726       | 962, 237                    | 645, 531       |
| New York.....                       | 39  | 936    | 611              | 967, 206       | 1, 728, 434    | 3, 840, 854                 | 2, 112, 420    |
| Ohio.....                           | 12  | 1, 140 | 1, 223           | 1, 473, 371    | 2, 431, 156    | 6, 014, 010                 | 3, 582, 134    |
| Oregon.....                         | 3   | 15     | 10               | 13, 520        | 18, 761        | 52, 777                     | 34, 016        |
| Tennessee.....                      | 5   | 121    | 132              | 78, 679        | 170, 683       | 310, 117                    | 139, 434       |
| Texas.....                          | 6   | 33     | 20               | 33, 780        | 78, 032        | 196, 014                    | 117, 982       |
| Washington.....                     | 5   | 216    | 43               | 137, 476       | 189, 083       | 480, 492                    | 201, 409       |
| Wisconsin.....                      | 27  | 2, 598 | 3, 703           | 2, 878, 829    | 4, 589, 315    | 11, 562, 834                | 6, 973, 489    |
| All other States <sup>3</sup> ..... |     |        |                  |                |                |                             |                |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of sporting and athletic goods: 1925, \$6,688,920; corresponding amounts for earlier years not calculated. Does not include the following values of sporting and athletic goods made as secondary products by establishments classified in other industries: 1925, \$2,717,744; 1923, \$2,181,519; 1921, \$2,900,021; 1919, \$1,495,072.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Colorado, 2 establishments; Connecticut, 4; Kentucky, 2; Louisiana, 1; Michigan, 4; Mississippi, 1; New Hampshire, 1; Pennsylvania, 3; Rhode Island, 4; Texas, 1; Vermont, 4.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power      | Wages        | Cost of materials | Value of products         | Value added by manufacture |
|--|--------------------------|-------------------------------|------------------|--------------|-------------------|---------------------------|----------------------------|
| <b>STATIONERY GOODS, NOT ELSEWHERE CLASSIFIED</b>  |                          |                               |                  |              |                   |                           |                            |
| <i>[Principal products: Papeterie and other stationers' specialties; inkstands; penholders, desk pads, etc.; calendars; copying devices; maps (wall, school, and other) and globes; school supplies; etc.]</i> |                          |                               |                  |              |                   |                           |                            |
| <i>United States</i>   |                          |                               |                  |              |                   |                           |                            |
| 1925.....  | 217                      | 11,399                        | 10,970           | \$12,076,257 | \$31,108,376      | <sup>1</sup> \$67,809,267 | \$36,700,891               |
| 1923.....  | 225                      | 13,314                        | 11,539           | 14,627,538   | 34,713,818        | <sup>1</sup> 77,688,935   | 42,975,117                 |
| 1921.....  | 221                      | 11,285                        | ( <sup>2</sup> ) | 12,399,283   | 29,605,923        | <sup>1</sup> 64,596,978   | 34,991,055                 |
| 1919.....  | 223                      | 11,261                        | 8,342            | 9,577,867    | 28,160,239        | <sup>1</sup> 58,363,244   | 30,203,005                 |
| <i>States, 1925</i>  |                          |                               |                  |              |                   |                           |                            |
| California.....  | 10                       | 111                           | 151              | 181,759      | 372,834           | 1,055,590                 | 682,756                    |
| Connecticut.....   | 8                        | 292                           | 683              | 335,456      | 626,117           | 1,740,933                 | 1,114,816                  |
| Illinois.....  | 34                       | 2,118                         | 1,765            | 2,714,908    | 4,983,292         | 14,991,371                | 10,008,079                 |
| Indiana.....   | 4                        | 225                           | 259              | 224,915      | 774,232           | 1,540,308                 | 766,076                    |
| Massachusetts.....   | 31                       | 2,811                         | 2,810            | 2,488,144    | 7,306,982         | 14,289,543                | 6,982,561                  |
| Michigan.....  | 7                        | 626                           | 530              | 718,163      | 2,297,693         | 4,082,860                 | 1,785,167                  |
| Missouri.....  | 6                        | 860                           | 683              | 851,646      | 2,926,502         | 5,077,412                 | 2,150,910                  |
| New Jersey.....  | 9                        | 149                           | 181              | 167,506      | 321,017           | 870,233                   | 549,216                    |
| New York.....  | 61                       | 2,059                         | 1,501            | 2,286,339    | 5,333,905         | 11,141,123                | 5,807,218                  |
| Ohio.....  | 8                        | 661                           | 853              | 666,955      | 1,624,636         | 4,331,741                 | 2,707,105                  |
| Pennsylvania.....  | 16                       | 707                           | 799              | 653,890      | 1,575,608         | 3,302,280                 | 1,726,672                  |
| Wisconsin.....   | 6                        | 280                           | 241              | 347,508      | 1,023,782         | 1,959,261                 | 935,479                    |
| All other States <sup>3</sup> .....  | 17                       | 500                           | 524              | 439,068      | 1,941,776         | 3,426,612                 | 1,484,836                  |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of stationery goods, not elsewhere classified: 1925, \$3,191,264; corresponding amounts for earlier years not calculated. Does not include the following values of stationery goods, not elsewhere classified, made as secondary products by establishments classified in other industries: 1925, \$7,139,446; 1923, \$7,661,241; 1921, \$4,959,372; 1919, \$5,944,798.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Delaware, 1 establishment; Georgia, 2; Iowa, 1; Kansas, 1; Kentucky, 2; Maryland, 2; Minnesota, 2; Tennessee, 1; Texas, 2; Virginia, 2; Washington, 1.

## STEAM AND OTHER PACKING, PIPE AND BOILER COVERING, AND GASKETS, NOT MADE IN TEXTILE MILLS

*[Principal products: Packing for steam, water, and other pipe joints, and for engines, air compressors, etc.; insulating material for covering boilers, steam and hot-water pipes, and ammonia pipes in refrigerating plants; and gaskets; made of duck, rubber, waste, wool, leather, asbestos, etc.]*

|                                     |     |       |                  |             |              |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |              |                           |              |
| 1925.....                           | 172 | 6,086 | 20,113           | \$8,072,189 | \$20,371,863 | <sup>1</sup> \$43,871,139 | \$23,499,276 |
| 1923.....                           | 142 | 5,064 | 17,671           | 6,431,746   | 15,849,197   | <sup>1</sup> 32,991,237   | 17,142,040   |
| 1921.....                           | 157 | 4,877 | ( <sup>2</sup> ) | 5,328,783   | 15,983,691   | <sup>1</sup> 29,112,457   | 13,128,766   |
| 1919.....                           | 169 | 6,147 | 26,755           | 7,103,275   | 22,724,561   | <sup>1</sup> 40,524,779   | 17,800,218   |
| <i>States, 1925</i>                 |     |       |                  |             |              |                           |              |
| California.....                     | 12  | 704   | 3,460            | \$60,203    | 959,780      | 3,368,508                 | 2,408,728    |
| Colorado.....                       | 5   | 11    | 41               | 13,588      | 41,434       | 84,282                    | 42,848       |
| Illinois.....                       | 23  | 1,386 | 1,054            | 2,054,698   | 6,672,144    | 11,531,430                | 4,859,286    |
| Massachusetts.....                  | 11  | 150   | 278              | 145,726     | 326,780      | 727,109                   | 400,329      |
| Michigan.....                       | 10  | 449   | 303              | 594,652     | 1,920,393    | 3,681,714                 | 1,661,321    |
| Minnesota.....                      | 4   | 191   | 2,067            | 276,148     | 659,796      | 1,622,059                 | 962,263      |
| New Jersey.....                     | 18  | 422   | 1,376            | 503,223     | 1,813,251    | 4,034,465                 | 2,221,214    |
| New York.....                       | 33  | 776   | 2,082            | 951,811     | 2,950,124    | 7,181,926                 | 4,231,802    |
| Ohio.....                           | 7   | 75    | 140              | 97,074      | 132,773      | 325,675                   | 192,902      |
| Pennsylvania.....                   | 27  | 1,543 | 8,045            | 2,072,341   | 4,035,656    | 9,265,139                 | 5,229,483    |
| Washington.....                     | 3   | 22    | 65               | 34,683      | 125,074      | 239,668                   | 114,594      |
| All other States <sup>3</sup> ..... | 19  | 357   | 1,202            | 468,042     | 734,658      | 1,909,164                 | 1,174,506    |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of steam and other packing: 1925, \$4,929,801; corresponding amounts for earlier years not calculated. Does not include the following values of steam and other packing made as secondary products by establishments classified in other industries: 1925, \$7,894,813; 1923, \$2,406,446; 1921, \$3,499,064; 1919, \$3,391,145.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 3 establishments; Georgia, 1; Indiana, 4; Kentucky, 1; Louisiana, 1; Maryland, 1; Missouri, 1; Montana, 1; Nebraska, 1; Oregon, 1; Tennessee, 1; Wisconsin, 3.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE | Number of establishments | Wage earners (average number) | Horse-power | Wages | Cost of materials | Value of products | Value added by manufacture |
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|
|----------------|--------------------------|-------------------------------|-------------|-------|-------------------|-------------------|----------------------------|

## SURGICAL APPLIANCES

[Principal products: Trusses, elastic hosiery and belts, shoulder braces, arch supports, extension shoes, surgical gauze, pneumatic splints, abdominal supporters, electric belts, anklets, kneecaps, suspensories, etc. The industry does not include the manufacture of surgical and dental instruments or dental and orthopedic appliances (see "Artificial limbs," "Instruments, professional and scientific," and "Dental goods.")]

|                                     |     |       |                  |             |              |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |              |                           |              |
| 1925.....                           | 180 | 5,888 | 11,572           | \$6,043,237 | \$26,186,992 | <sup>1</sup> \$55,264,356 | \$29,077,364 |
| 1923.....                           | 178 | 5,375 | 9,290            | 5,597,101   | 23,662,480   | <sup>1</sup> 44,968,237   | 21,305,757   |
| 1921.....                           | 190 | 4,310 | ( <sup>2</sup> ) | 4,555,113   | 14,457,730   | <sup>1</sup> 32,495,421   | 18,037,691   |
| 1919.....                           | 268 | 6,390 | 12,382           | 6,084,143   | 22,213,621   | <sup>1</sup> 43,533,560   | 21,320,239   |
| <i>States, 1925</i>                 |     |       |                  |             |              |                           |              |
| California.....                     | 18  | 43    | 37               | 61,447      | 102,513      | 390,665                   | 288,152      |
| Colorado.....                       | 4   | 10    | 8                | 14,494      | 12,288       | 42,871                    | 30,083       |
| Connecticut.....                    | 6   | 232   | 1,242            | 183,409     | 1,648,794    | 2,280,865                 | 632,071      |
| Illinois.....                       | 18  | 960   | 3,088            | 1,012,500   | 3,953,806    | 8,840,769                 | 4,883,963    |
| Kansas.....                         | 3   | 14    | 20               | 14,609      | 22,716       | 91,171                    | 68,455       |
| Missouri.....                       | 11  | 206   | 455              | 178,955     | 706,550      | 2,009,237                 | 1,302,687    |
| New York.....                       | 50  | 821   | 506              | 759,602     | 3,142,011    | 7,005,697                 | 3,863,686    |
| Ohio.....                           | 9   | 259   | 29               | 202,065     | 638,489      | 1,291,416                 | 652,927      |
| Pennsylvania.....                   | 15  | 510   | 265              | 469,071     | 561,567      | 1,738,719                 | 1,177,152    |
| All other States <sup>3</sup> ..... | 46  | 2,833 | 5,922            | 3,147,115   | 15,395,258   | 31,573,446                | 16,178,188   |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of surgical appliances: 1925, \$356,703; corresponding amounts for earlier years not calculated. Does not include the following values of surgical appliances made as secondary products by establishments classified in other industries: 1925, \$1,841,878; 1923, \$1,837,925; 1921, \$1,286,970; 1919, \$1,054,501.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> District of Columbia, 1 establishment; Indiana, 2; Iowa, 1; Maine, 1; Maryland, 2; Massachusetts, 12; Michigan, 3; Minnesota, 2; Nebraska, 2; Nevada, 1; New Jersey, 12; Oklahoma, 1; Oregon, 1; Rhode Island, 1; Utah, 1; Washington, 1; Wisconsin, 2. Massachusetts and New Jersey each reported a larger value of products than any of the States for which figures are shown.

## THEATRICAL SCENERY AND STAGE EQUIPMENT

[Principal products: Stage scenery; advertising curtains; stage hardware and equipment; floats for street pageants. The incidental work done on scenery in theaters is not included]

|                                     |    |     |                  |           |             |                          |             |
|-------------------------------------|----|-----|------------------|-----------|-------------|--------------------------|-------------|
| <i>United States</i>                |    |     |                  |           |             |                          |             |
| 1925.....                           | 33 | 391 | 413              | \$853,652 | \$1,519,907 | <sup>1</sup> \$3,578,210 | \$2,058,303 |
| 1923.....                           | 17 | 210 | 162              | 429,772   | 634,622     | <sup>1</sup> 1,625,668   | 991,046     |
| 1921.....                           | 18 | 169 | ( <sup>2</sup> ) | 361,302   | 491,652     | <sup>1</sup> 1,214,489   | 722,798     |
| 1919.....                           | 17 | 149 | 104              | 237,603   | 504,655     | <sup>1</sup> 1,067,033   | 562,378     |
| <i>States, 1925</i>                 |    |     |                  |           |             |                          |             |
| California.....                     | 5  | 59  | 50               | 136,843   | 242,714     | 529,999                  | 287,285     |
| Illinois.....                       | 8  | 89  | 44               | 184,012   | 278,762     | 771,966                  | 493,204     |
| New York.....                       | 7  | 111 | 146              | 274,825   | 528,284     | 1,099,125                | 570,841     |
| All other States <sup>3</sup> ..... | 13 | 132 | 173              | 257,972   | 470,147     | 1,177,120                | 706,973     |

<sup>1</sup> Does not include the following values of theatrical scenery and stage equipment made as secondary products by establishments classified in other industries: 1925, \$143,790; 1923, \$12,850. No comparable data for 1921 and 1919.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Connecticut, 1 establishment; Massachusetts, 1; Minnesota, 1; Missouri, 3; New Jersey, 1; Ohio, 3; Oklahoma, 1; Oregon, 1; Pennsylvania, 1.



## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE   | Number of establishments | Wage earners (average number) | Horse-power      | Wages          | Cost of materials | Value of products           | Value added by manufacture |
|--|--------------------------|-------------------------------|------------------|----------------|-------------------|-----------------------------|----------------------------|
| <b>TOYS (NOT INCLUDING CHILDREN'S WHEEL GOODS OR SLEDS), GAMES, AND PLAYGROUND EQUIPMENT</b>   |                          |                               |                  |                |                   |                             |                            |
| <i>[Principal products: All games for adults except those classifiable under "Sporting and athletic goods, not including firearms and ammunition," and those played with ordinary playing cards; all games for children; playground goods, and lawn swings; toys of all kinds, such as dolls, doll parts, and clothes, toy furniture and utensils, mechanical toys, toy-building blocks, toy drums, hobbyhorses, and rocking-horses; kites; conjuring apparatus, tricks, and puzzles; masks; marbles; educational boards; toy balloons; toy pistols, air rifles, etc.]</i> |                          |                               |                  |                |                   |                             |                            |
| <i>United States</i>   |                          |                               |                  |                |                   |                             |                            |
| 1925.....  | 363                      | 14, 162                       | 20, 744          | \$14, 311, 766 | \$23, 397, 795    | <sup>1</sup> \$58, 317, 361 | \$34, 919, 566             |
| 1923.....  | 411                      | 14, 484                       | 16, 111          | 13, 900, 548   | 23, 829, 329      | <sup>1</sup> 50, 060, 432   | 32, 237, 103               |
| 1921.....  | 362                      | 9, 448                        | ( <sup>2</sup> ) | 8, 953, 034    | 14, 568, 517      | <sup>1</sup> 35, 491, 345   | 20, 922, 828               |
| 1919.....  | 541                      | 14, 201                       | 14, 423          | 11, 847, 277   | 19, 841, 498      | <sup>1</sup> 45, 656, 803   | 25, 815, 305               |
| <i>States, 1925</i>  |                          |                               |                  |                |                   |                             |                            |
| California.....  | 14                       | 119                           | 199              | 141, 745       | 197, 636          | 564, 754                    | 367, 118                   |
| Connecticut.....   | 17                       | 903                           | 531              | 887, 486       | 1, 202, 523       | 3, 640, 459                 | 2, 437, 936                |
| Illinois.....  | 25                       | 1, 056                        | 1, 314           | 1, 151, 868    | 1, 762, 265       | 5, 002, 223                 | 3, 239, 958                |
| Indiana.....   | 5                        | 362                           | 818              | 332, 979       | 544, 388          | 1, 288, 913                 | 744, 525                   |
| Iowa.....  | 5                        | 61                            | 75               | 46, 031        | 83, 232           | 190, 878                    | 107, 146                   |
| Maine.....   | 4                        | 428                           | 1, 045           | 376, 554       | 550, 200          | 1, 217, 262                 | 667, 062                   |
| Maryland.....  | 7                        | 152                           | 162              | 121, 231       | 246, 610          | 584, 422                    | 337, 812                   |
| Massachusetts.....   | 26                       | 1, 525                        | 2, 734           | 1, 384, 100    | 2, 390, 494       | 5, 928, 720                 | 3, 538, 226                |
| Michigan.....  | 8                        | 480                           | 1, 570           | 572, 396       | 704, 797          | 2, 085, 350                 | 1, 380, 553                |
| Minnesota.....   | 6                        | 153                           | 113              | 99, 161        | 101, 995          | 326, 765                    | 224, 770                   |
| Missouri.....  | 4                        | 103                           | 114              | 112, 138       | 332, 683          | 626, 271                    | 293, 588                   |
| New Hampshire.....   | 7                        | 157                           | 478              | 154, 348       | 166, 160          | 454, 993                    | 288, 833                   |
| New Jersey.....  | 19                       | 1, 300                        | 1, 163           | 1, 328, 210    | 1, 551, 866       | 4, 874, 612                 | 3, 322, 746                |
| New York.....  | 106                      | 2, 890                        | 2, 509           | 3, 580, 731    | 7, 292, 375       | 16, 401, 105                | 9, 108, 530                |
| Ohio.....  | 47                       | 2, 001                        | 3, 331           | 1, 847, 372    | 3, 223, 721       | 7, 706, 055                 | 4, 476, 784                |
| Pennsylvania.....  | 34                       | 1, 445                        | 2, 618           | 1, 347, 207    | 2, 033, 014       | 4, 895, 881                 | 2, 862, 867                |
| Vermont.....   | 4                        | 352                           | 1, 080           | 277, 814       | 205, 651          | 647, 856                    | 442, 205                   |
| Wisconsin.....   | 8                        | 218                           | 415              | 198, 023       | 310, 531          | 759, 264                    | 412, 733                   |
| All other States <sup>3</sup> .....  | 17                       | 441                           | 475              | 352, 372       | 485, 154          | 1, 121, 628                 | 636, 174                   |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of toys, games, and playground equipment. 1925, \$4,414,923; corresponding amounts for earlier years not calculated. Does not include the following values of toys, games, and playground equipment made as secondary products by establishments classified in other industries: 1925, \$6,569,081; 1923, \$2,916,394; 1921, \$1,856,495; 1919, \$3,150,013.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Alabama, 1 establishment; Colorado, 1; District of Columbia, 1; Georgia, 1; Kansas 3; Kentucky, 2; North Carolina, 1; Oklahoma, 2; Rhode Island, 2; Texas, 1; Washington, 2.

## UMBRELLAS, PARASOLS, AND CANES

*[Principal products: Umbrellas, parasols, covers, handles other than gold or silver, and other umbrella and parasol parts, and canes]*

|                                     |     |        |                  |               |                |                             |                |
|-------------------------------------|-----|--------|------------------|---------------|----------------|-----------------------------|----------------|
| <i>United States</i>                |     |        |                  |               |                |                             |                |
| 1925.....                           | 176 | 3, 731 | 3, 027           | \$3, 696, 014 | \$16, 594, 328 | <sup>1</sup> \$27, 299, 431 | \$10, 705, 103 |
| 1923.....                           | 187 | 3, 776 | 2, 409           | 3, 738, 831   | 17, 999, 629   | <sup>1</sup> 28, 395, 233   | 10, 395, 604   |
| 1921.....                           | 154 | 3, 149 | ( <sup>2</sup> ) | 3, 126, 246   | 16, 888, 759   | <sup>1</sup> 26, 067, 762   | 9, 119, 003    |
| 1919.....                           | 198 | 3, 368 | 3, 357           | 3, 139, 662   | 15, 632, 989   | <sup>1</sup> 25, 308, 826   | 9, 675, 837    |
| <i>States, 1925</i>                 |     |        |                  |               |                |                             |                |
| Maryland.....                       | 6   | 547    | 64               | 301, 888      | 2, 507, 643    | 3, 645, 463                 | 1, 137, 820    |
| Massachusetts.....                  | 9   | 120    | 113              | 107, 361      | 594, 408       | 829, 683                    | 325, 275       |
| New Jersey.....                     | 5   | 188    | 102              | 141, 201      | 425, 901       | 762, 478                    | 336, 577       |
| New York.....                       | 111 | 1, 073 | 517              | 1, 475, 046   | 7, 308, 330    | 10, 963, 170                | 3, 653, 840    |
| Ohio.....                           | 7   | 398    | 551              | 355, 673      | 1, 449, 771    | 2, 543, 066                 | 893, 295       |
| Pennsylvania.....                   | 21  | 1, 266 | 1, 605           | 1, 186, 793   | 3, 760, 787    | 7, 729, 146                 | 3, 908, 359    |
| All other States <sup>3</sup> ..... | 17  | 139    | 75               | 128, 052      | 636, 458       | 1, 026, 425                 | 389, 937       |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of umbrellas, parasols, and canes: 1925, \$1,245,033; corresponding amounts for earlier years not calculated. Does not include the following values of umbrellas, parasols, and canes made as secondary products by establishments classified in other industries: 1925, \$41,999; 1923, \$301,698; 1921, \$79,990; 1919, \$81,964.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> California, 1 establishment; Connecticut, 1; Georgia, 1; Illinois, 4; Louisiana, 2; Missouri, 3; Oregon, 1; Tennessee, 2; Washington, 1; Wisconsin, 1.

## SUMMARY FOR INDUSTRIES IN GROUP 16 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 1170]

| YEAR AND STATE  | Number of establishments | Wage earners (average number) | Horse-power      | Wages    | Cost of materials | Value of products      | Value added by manufacture |
|---|--------------------------|-------------------------------|------------------|----------|-------------------|------------------------|----------------------------|
| <b>WHIPS</b>  |                          |                               |                  |          |                   |                        |                            |
| [Principal products: Drovers' and team whips, riding whips and crops, whip snaps, lashes, etc.] |                          |                               |                  |          |                   |                        |                            |
| <i>United States</i>  |                          |                               |                  |          |                   |                        |                            |
| 1925-----   | 9                        | 103                           | 158              | \$73,004 | \$131,969         | <sup>1</sup> \$308,039 | \$176,070                  |
| 1923-----   | 12                       | 200                           | 354              | 181,204  | 301,708           | <sup>1</sup> 742,145   | 440,437                    |
| 1921-----   | 14                       | 292                           | ( <sup>2</sup> ) | 239,931  | 427,634           | <sup>1</sup> 1,022,118 | 594,484                    |
| 1919-----   | 26                       | 717                           | 853              | 582,230  | 1,096,642         | <sup>1</sup> 2,986,285 | 1,889,643                  |
| <i>States, 1925</i>   |                          |                               |                  |          |                   |                        |                            |
| Massachusetts-----  | 3                        | 54                            | 102              | 39,494   | 89,806            | 189,823                | 100,017                    |
| New York-----   | 3                        | 16                            | 31               | 14,981   | 16,152            | 51,282                 | 35,130                     |
| All other States <sup>3</sup> -----   | 3                        | 33                            | 25               | 18,529   | 26,011            | 66,934                 | 40,923                     |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of whips: 1925, \$11,769; corresponding amounts for earlier years not calculated. Does not include the following values of whips made as secondary products by establishments classified in other industries: 1925, \$289,954; 1923, \$87,374; 1921, \$157,218; 1921, \$219,695.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> Illinois, 1 establishment; Missouri, 1; Texas, 1.

## WINDOW SHADES AND FIXTURES

[Principal products: Window shades of cotton, linen, muslin, etc.; window-shade fixtures, rollers, brass rods, wooden poles, and brackets]

|                                     |     |       |                  |             |              |                           |              |
|-------------------------------------|-----|-------|------------------|-------------|--------------|---------------------------|--------------|
| <i>United States</i>                |     |       |                  |             |              |                           |              |
| 1925-----                           | 336 | 5,176 | 11,151           | \$6,207,820 | \$25,029,474 | <sup>1</sup> \$41,657,681 | \$16,628,207 |
| 1923-----                           | 305 | 5,957 | 11,450           | 6,825,750   | 29,521,217   | <sup>1</sup> 47,640,082   | 18,118,865   |
| 1921-----                           | 242 | 3,781 | ( <sup>2</sup> ) | 4,421,041   | 17,887,660   | <sup>1</sup> 29,647,761   | 11,760,101   |
| 1919-----                           | 287 | 4,411 | 8,946            | 3,669,286   | 18,249,540   | <sup>1</sup> 29,190,649   | 10,941,109   |
| <i>States, 1925</i>                 |     |       |                  |             |              |                           |              |
| California-----                     | 59  | 348   | 396              | 497,347     | 2,135,664    | 3,712,249                 | 1,576,585    |
| Connecticut-----                    | 4   | 14    | 8                | 11,981      | 88,455       | 136,744                   | 48,289       |
| Illinois-----                       | 77  | 724   | 3,145            | 958,643     | 5,831,211    | 8,451,732                 | 2,620,521    |
| Indiana-----                        | 6   | 73    | 36               | 59,059      | 335,203      | 566,448                   | 231,245      |
| Maryland-----                       | 12  | 108   | 21               | 104,410     | 1,123,562    | 1,518,936                 | 395,874      |
| Massachusetts-----                  | 17  | 93    | 220              | 102,016     | 697,002      | 1,178,043                 | 481,041      |
| Michigan-----                       | 5   | 1,005 | 2,590            | 1,211,886   | 2,139,331    | 4,959,898                 | 2,820,567    |
| Minnesota-----                      | 5   | 39    | 118              | 45,738      | 149,642      | 390,579                   | 240,937      |
| Missouri-----                       | 8   | 73    | 16               | 104,136     | 491,567      | 738,195                   | 246,628      |
| New Jersey-----                     | 23  | 454   | 691              | 597,163     | 2,398,800    | 4,397,024                 | 1,998,224    |
| New York-----                       | 58  | 1,402 | 2,902            | 1,692,501   | 5,795,874    | 9,519,106                 | 3,723,232    |
| Ohio-----                           | 12  | 101   | 87               | 71,181      | 475,511      | 671,571                   | 196,060      |
| Oregon-----                         | 5   | 23    | 21               | 23,487      | 228,019      | 348,152                   | 120,133      |
| Pennsylvania-----                   | 13  | 81    | 19               | 106,747     | 602,276      | 880,272                   | 277,996      |
| Texas-----                          | 5   | 49    | 13               | 42,535      | 466,416      | 687,869                   | 221,453      |
| Vermont-----                        | 3   | 141   | 265              | 115,571     | 334,213      | 560,626                   | 226,413      |
| Washington-----                     | 4   | 14    | 5                | 20,839      | 75,853       | 135,412                   | 59,559       |
| Wisconsin-----                      | 4   | 118   | 179              | 113,523     | 420,435      | 884,013                   | 463,578      |
| All other States <sup>3</sup> ----- | 16  | 316   | 419              | 329,057     | 1,240,440    | 1,920,812                 | 680,372      |

<sup>1</sup> Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of window shades and fixtures: 1925, \$5,702,353; corresponding amounts for earlier years not calculated. Does not include the following values of window shades and fixtures made as secondary products by establishments classified in other industries: 1925, \$3,147,793; 1923, \$2,251,387; 1921, \$952,161; 1919, \$1,263,644.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> District of Columbia, 3 establishments; Florida, 1; Georgia, 1; Kansas, 1; Kentucky, 2; Nebraska, 2; North Carolina, 1; Rhode Island, 3; Tennessee, 2.